

L. F. FREE

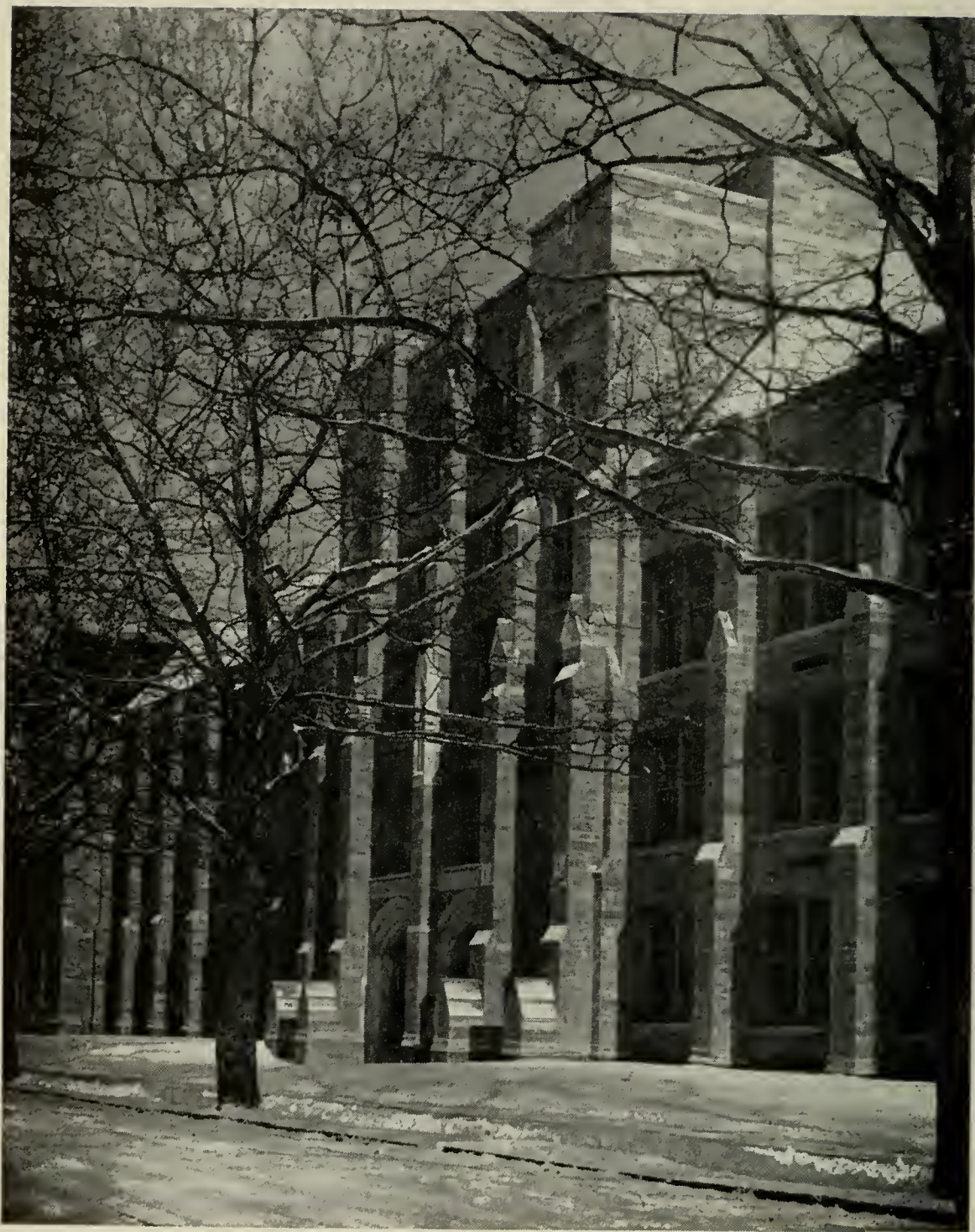
State Teachers College Bulletin



Catalogue Number

1953-1954 Sessions

West Chester, Pennsylvania



ANDERSON HALL

STATE TEACHERS COLLEGE BULLETIN

WEST CHESTER, PENNSYLVANIA



1953-1954 Sessions

CATALOGUE NUMBER

STATE TEACHERS COLLEGE

Vol. LXXXI

February, 1953

No. 1

WEST CHESTER, PENNSYLVANIA

THIS COLLEGE IS A MEMBER OF THE
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FOR TEACHER EDUCATION AND THE MID-
DLE STATES ASSOCIATION OF COLLEGES
AND SECONDARY SCHOOLS

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COLLEGE CALENDAR - 1953-1954**The Summer Sessions, 1953****Pre-Session**

Registration: 8:30-11:30 A.M.-----Monday, June 8
 Classes begin 1:30 P.M.-----Monday, June 8
 Classes end-----Friday, June 26

Regular Session

Registration: 8:30-11:30; 1:30-3:30-----Monday, June 29
 Classes begin-----Tuesday, June 30
 Classes end-----Friday, August 7

Post-Session

Registration: 8:30-11:30 A.M.-----Monday, August 10
 Classes begin 1:30 P.M.-----Monday, August 10
 Classes end-----Friday, August 28

The Academic Year, 1953-1954**The First Semester**

Registration of Freshmen and Seniors-----Tuesday, Sept. 8
 Registration of Sophomores and Juniors----Wednesday, Sept. 9
 Classes begin at 8:00 A.M.-----Thursday, Sept. 10
 Thanksgiving Recess begins at the
 close of classes-----Tuesday, Nov. 24
 Thanksgiving Recess ends at 8:00 A.M.-----Monday, Nov. 30
 Christmas Recess begins at the
 close of classes-----Wednesday, Dec. 16
 Christmas Recess ends at 8:00 A.M.-----Monday, Jan. 4
 First Semester ends at noon-----Thursday, Jan. 21

The Second Semester

Registration-----Monday, Jan. 25
 Classes begin at 8:00 A.M.-----Tuesday, Jan. 26
 Easter Recess begins at the close of classes----Tuesday, April 13
 Easter Recess ends at 8:00 A.M.-----Tuesday, April 20
 Alumni Day-----Saturday, May 22
 Baccalaureate Services-----Sunday, May 23
 Commencement-----Monday, May 24

COLLEGE CALENDAR - 1954-1955**The Summer Sessions, 1954****Pre-Session**

Registration: 8:30-11:30 A.M.-----Monday, June 7
 Classes begin 1:30 P.M.-----Monday, June 7
 Classes end-----Friday, June 25

Regular Session

Registration: 8:30-11:30; 1:30-3:30-----Monday, June 28
 Classes begin-----Tuesday, June 29
 Classes end-----Friday, August 6

Post-Session

Registration: 8:30-11:30 A.M.-----Monday, August 9
 Classes begin 1:30 P.M.-----Monday, August 9
 Classes end-----Friday, August 27

The Academic Year, 1954-1955**The First Semester**

Registration of Freshmen and Seniors-----Tuesday, Sept. 7
 Registration of Sophomores and Juniors-----Wednesday, Sept. 8
 Classes begin at 8:00 A.M.-----Thursday, Sept. 9
 Thanksgiving Recess begins at the
 close of classes-----Tuesday, Nov. 23
 Thanksgiving Recess ends at 8:00 A.M.-----Monday Nov. 29
 Christmas Recess begins at the
 close of classes-----Wednesday, Dec. 15
 Christmas Recess ends at 8:00 A.M.-----Monday, Jan. 3
 First Semester ends at noon-----Thursday, Jan. 20

The Second Semester

Registration-----Monday, Jan. 24
 Classes begin at 8:00 A.M.-----Tuesday, Jan. 25
 Easter Recess begins at the close of classes-----Tuesday, April 5
 Easter Recess ends at 8:00 A.M.-----Tuesday, April 12
 Alumni Day-----Saturday, May 21
 Baccalaureate Services-----Sunday, May 22
 Commencement-----Monday, May 23

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF PUBLIC INSTRUCTION

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 STANLEY A. WENGERT.....Assistant Director

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WILLIAM R. BENNER	Assistant Dean of Men and Faculty Manager of Athletics
EMIL H. MESSIKOMER	Director of Personnel and Head Coach of Basketball
EVERETT E. SHAEFER	Bursar
THOMAS A. PITT	Steward and Superintendent of Buildings and Grounds

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1952-1953

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West Chester State Teachers College; Dickinson College, B.A.;
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ROBERT F. ANDERSON *Department of Mathematics, Emeritus*

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University of Michigan, B.A.; University of Chicago, M.A.

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West Chester Teachers College; University of Michigan, B.L.;
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Gettysburg College, B.A.; University of Pennsylvania, A.M.;
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Massachusetts School of Art; University of Puerto Rico, B. A.;
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* With the exception of the President, names are arranged in order of appointment.

** Leave of absence

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Shippensburg State Teachers College; Dickinson College, A.B.;
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LEONE E. BROADHEAD *Assistant Dean of Women*
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ELEANOR MacMICHAEL	Dormitory Supervisor
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LIBRARY STAFF

MARGARET K. AUSTIN	Periodicals Assistant
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COOPERATING TRAINING TEACHERS**1952-1953****Elementary Education****WEST CHESTER**

Allbach, Marion L. M., B.S.
 Benjamin, Jean E., B.S., M.Ed.
 Binney, Edith, B.S.
 Broomall, Elizabeth, B.S.
 Cummings, Mary, B.S.
 Edwards, Betty, B.S.
 Eppenhimer, Phyllis, B.S.
 Esworthy, Sara
 Farra, Dorothy B., B.S., M.A.
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 Hoopes, Margaret W.
 Housel, Leonore, B.S.

Keithley, Mildred
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 Kinsey, Mary F.
 Leaf, Natalie, B.S., M.Ed.
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 Maxwell, Zelma L., B.S.
 Muth, Estella, B.S.
 Robins, Anne T.
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 Spann, Alice L., B.S.
 Starr, Eleanor, B.S.
 Stewart, Orphia P., B.S.
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Atwell, Lena F.
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 Darlington, Emma
 Gilbert, Loraine, B.S.

Jordan, Verna
 McCreary, Marion S., B.S.
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 Thomas, Margaret, B.S.

Woodward, Laura, B.S., M.A.

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Talley, William B., B.S.

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 Ford, Barbara, B.A., M.A.
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 Kern, Joseph, B.S.

Labin, Merle, B.S.
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 Lewis, Kcitha, B.S., M.A.
 Miller, Esther, B.A.
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 Prutzman, Lewis, Ph.D., M.A.
 Temple, Sara E., B.S., M.A.
 Trapnell, Edythe, B.S.
 Urich, Russell, B.A., M.A.

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 Gustafson, Edna, B.S.
 Hanzelman, Joseph, B.S.

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Ginter, Lillian, B.S.

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Zimmerman, Harold

BERWYN

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Forward, Robert, B.S.

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LANSDOWNE

Black, Lloyd, B.S., M.Ed.
Buffington, William, B.S.

MEDIA

Gabriel, James, B.S.

RADNOR

Encke, Ethel, B.S., M.S.
Metoxen, Chief, B.S., M.S.
Lentz, Warren, B.S., M.A.

RIDLEY PARK

Godfrey, Samuel O., B.S.

SWARTMORE

Reese, William, B.S., M.Ed.
Robinson, Millard, B.S., M.Ed.

UNIONVILLE

Reynolds, Lewis, B.S.

UPPER CHICHESTER

Kalickman, Milton, B.S., M.A.

STATE TEACHERS COLLEGE

GENERAL INFORMATION

History

The West Chester Academy, founded in 1812, marks the beginning of the College. The Academy trustees took the initial steps in 1869 toward the establishment of the West Chester Normal School. The graduates of this institution went out into the state as teachers. The Commonwealth, realizing its responsibility in the preparation of teachers, began in 1871 to grant money to pay part of their training. These grants, then termed State Aid, have continued in various forms. As the West Chester Normal School, the institution had five principals. Dr. Andrew Thomas Smith, the last to bear the title, was a scholarly and deeply loved executive. When the State Normal School became the State Teachers College in 1927, the head of the institution became president. Among the men who have led the school, Dr. George Morris Philips, the fourth principal, is especially prominent. Through his long term of service he made a major contribution to the physical and educational progress of the College. His name is associated with the building program which he successfully initiated and accomplished. The college plant consisted of one building, the present central section of "Old Main," when he became principal. From 1891 to 1920 his direction and inspiration increased the College by the construction of additions to "Old Main," the Old Gymnasium, the Green House, the Infirmary, and Recitation Hall. The Demonstration School and the Library were added at the turn of the century. Wayne Hall, built on the site of the Camp Wayne of the Civil War, was erected in 1911. The auditorium and administration building was built in 1925 and named the Philips Memorial Building in honor of Dr. Philips. 1930 saw the addition of the Ehinger Gymnasium and the President's residence. More recently the Library and Power House have been remodeled and a Laundry and new education building, Anderson Hall, have been built.

The College is justly proud of its reputation in the educational world. One of the earliest summer schools in the country was inaugurated here in 1877. West Chester also printed one of the first student handbooks in 1895.

Among the material treasures of the school are: an original painting of George Washington by Charles Wilson Peale for which Washington gave sittings at Valley Forge during the memorable winter 1777-78; a mahogany grandfather's clock, once the property of Benjamin Franklin; a large collection of letters from the pens of

Washington, Lafayette, Greene, Arnold, Wayne, Hamilton, Putman, Sullivan, and Gates, as well as from such literary men as Sidney Lanier and Thomas Buchanan Read; and the autographed book collection of Dr. George Morris Philips to which the English Professional Club is constantly adding.

The State Teachers College at West Chester is the repository of the mineral collections and the herbarium of the Chester County Cabinet of Natural Science. The herbarium includes plant specimens collected in Chester County more than a century ago by Dr. William Darlington and his colleague, David Townsend. The library of the Cabinet is also the property of the College and contains many old and now rare books on natural history, which may be consulted upon request to the librarian.

The Darlington Herbarium and the mineral collections of the Cabinet are located in the Science Museum on the third floor of Anderson Hall. These have been augmented by an archaeological exhibit and the J. Preston Thomas collection of mammal horns. Recently the College acquired the complete ornithological collection of B. Harry Warren, M.D., formerly the State Ornithologist of Pennsylvania, and long-time resident of West Chester.

In 1952, the College received from the late William Pyle Philips, as a legacy, copies of the four Folios of Shakespeare's plays, that is, the First, 1623, Second, 1632, two variants of the Third, 1663 and 1664 respectively, and the Fourth, 1685. It also received the nine volume set of Sanderson's *Biographies of the Signers to the Declaration of Independence*, with autographs of the Signers set in.

These valuable books were given in memory of Dr. Francis Harvey Green and will be permanently housed in the Francis Harvey Green Library.

Location

West Chester is the county seat of Chester County, one of the three original counties laid out by William Penn. The plow engraved on the seal of the county symbolizes the agricultural character of its beautiful rolling hills reminiscent of the English home counties.

Those interested in literature and art will find West Chester has significance. Here Joseph Hergesheimer, the novelist, lived for many years. Sidney Lanier, Bayard Taylor, Thomas Buchanan Read, Mark Sullivan, and Elsie Singmaster, all have associations with West Chester. The country which Howard Pyle, the artist, made famous lies along the neighboring Brandywine; and the late N. C. Wyeth, a world renowned pupil of Pyle, lived at nearby Chadds Ford.

The famous Longwood Gardens on the estate of Pierre S. du Pont are not far from West Chester. These are open to the public. Here are found a magnificent conservatory, an open-air theatre, a famous carillon, and beautiful colored fountains.

The country around West Chester is rich in historical interest. The Valley Forge Memorial Chapel and the camp grounds, the Brandywine Battlefield, Birmingham Meeting House, and the site of the Paoli Massacre lie close at hand. The proximity of West Chester to Philadelphia and its wealth of historical associations enables students to enrich their courses by visits to well-known shrines and institutions as Independence Hall, Carpenters' Hall, the Betsy Ross House, the Pennsylvania Museum of Art, the Academy of Fine Arts, the Rodin Museum, the United States Customs House, The United States Mint, the Zoological Gardens, the Franklin Institute, and the Academy of Natural Sciences. Philadelphia's fine musical organizations afford opportunities to those with an interest in music to hear the best concerts and operas. This is a particular advantage to those taking the course for music supervisors.

BUILDINGS AND GROUNDS

The grounds of the State Teachers College consist of 57.3 acres located in the southeastern part of West Chester. Sixteen buildings with an estimated value of some \$5,530,000 are erected on this tract.

The Reynolds property, adjacent to the Main Campus, was acquired in 1948. It consists of approximately four and one-half acres on which are located a large stone house and a garage.

The Main Campus

The major buildings of the College are located on the Main Campus, a tract of 12.5 acres. The number and variety of its magnificent old trees makes West Chester one of the more attractive eastern colleges. Several recent classes have added much to the beauty of the campus with generous gifts of trees and shrubs.

Wayne Field

West of Main Campus is located Wayne Field, a tract of about 20 acres, which is used for the men's athletic activities. It includes a quarter-mile running track with 220 yard straightaway, five tennis courts, and fields for soccer, football, and baseball.

Women's Athletic Field

South of the Main Campus an extensive tract provides for the athletic activities of the women of the College. On this tract are

located nine tennis courts and fields for hockey, soccer, softball, archery, and volley-ball. Every woman student of the College has an opportunity to engage in one or more of these sports.

Philips Memorial Building

This building is a memorial to the late Dr. George Morris Philips, a former principal of the school. It contains an auditorium with a seating capacity of approximately two thousand, executive offices, and recreation rooms for faculty and students. It also houses the well-known Philips autographed book collection in the beautiful library which bears the donor's name.

Main Building

This is a four-story building of green stone which is used as the main Women's Dormitory. It has a basement equipped with laundry and pressing facilities for students. On each floor are bathrooms with modern toilet accommodations; an elevator makes all floors easily accessible. A comfortable lobby affords opportunity for friendly get-togethers, informal teas, and after-dinner coffees. In addition, there are five smaller social rooms, artistically furnished. The dining room, which accommodates both men and women students, is in charge of a trained dietitian.

Freshman Hall

Old Recitation Hall, the former classroom building, has been remodeled and is now used as a dormitory for Freshman women. Over one hundred students are housed in this building.

The College Book Store is located on the ground floor at the north side of Freshman Hall and the College Post Office is on the same floor on the south side.

Reynolds Hall

The large house located on the former Reynolds property has been completely renovated and now comfortably accommodates approximately twenty women students and a dormitory supervisor.

Wayne Hall

This is a modern, well-equipped dormitory for men. It is built of green stone, is three stories high, and accomodates 156 men.

President's Residence

The home of the President of the College, a recently renovated Chester County farm-house, is located on East Rosedale Avenue.

Anderson Hall

This building was first occupied in 1941. It has special rooms for speech, reading, and psychology clinics, special up-to-date

equipment and laboratories for the science departments, large recreation and study rooms for day students, and offices for faculty members. It contains a full complement of well-equipped classrooms.

Francis Harvey Green Library

The college library, built in 1902, was completely remodeled in 1938-1941, and in 1947 was dedicated to Dr. Francis Harvey Green, former head of the English Department. Some of its special features are the open-shelf reserve room, the curriculum laboratory, the recreational reading room, and conference rooms. In addition to the reference and periodical rooms, there is an attractive juvenile room, used by children from the Demonstration School as well as by college students.

The library has approximately 61,000 volumes and receives over 300 magazines and newspapers. It also has a valuable collection of rare books on natural history, the four folios of Shakespeare's plays (1623-1685), and the Sanderson *Biographies of the Signers to the Declaration of Independence*, with autographs of the Signers.

The staff of the library consists of three trained librarians, a clerical assistant, and a number of student assistants.

Lessons in the use of the Library are given to all entering students.

The library is affiliated with the Philadelphia Biographical Center and Union.

Gymnasiums

The College has two gymnasiums, one modeled after the Hemingway Gymnasium at Harvard; the other a newer gymnasium named for Dr. and Mrs. Clyde E. Ehinger, who were for thirty-four years at the head of the Health and Physical Education Department of the College. Both buildings are modern in floor plans and equipment.

These gymnasiums are not only used by the men and women students of the special four-year Health and Physical Education curriculum, but also by other students for both gymnasium and recreational activities.

Demonstration School

This is a substantial, well-equipped building which houses a kindergarten and the first six grades of the elementary school. A new playground with modern play equipment adequately serves the school. The school population consists of children living outside

the local borough, children living in the borough contingent to the building, and children of faculty members.

Infirmary

This building houses the student health services and an infirmary. Its equipment is modern and adequate. The staff consists of a part-time physician and two trained nurses.

THE PURPOSE AND OBJECTIVES OF THE STATE TEACHERS COLLEGE AT WEST CHESTER

The Normal School act was approved May 20, 1857. This act divided the state into twelve districts and gave permission for the establishment of a normal school in each district. The first district was composed of the following counties: Bucks, Chester, Delaware, Montgomery, and Philadelphia. Under the provisions of this act the State Normal School at West Chester, Pennsylvania, was recognized February 22, 1871. The Normal School became a teachers college maintaining four-year curricula in 1927. The first degrees were granted during the summer of that year.

The School Laws of Pennsylvania, 1949, set forth the purposes for creating and maintaining teachers colleges. Sections 2003 and 2009 read as follows:

Section 2003—PURPOSE—The colleges shall be a part of the public school system of the Commonwealth, and their purpose the education and preparation of teachers. The colleges shall provide proper facilities for instruction in the art and science of teaching, for the boarding and lodging of students in residence, and other necessary facilities approved by the Superintendent of Public Instruction.

Section 2009—VOCATIONAL EDUCATION AND REHABILITATION PROGRAM: CONVERSION FOR OTHER PURPOSES, ETC.—The trustees of any State Teachers College with the approval of the Department of Public Instruction and the Governor, may cooperate with municipal, State, Federal, and other agencies in vocational education and rehabilitation programs in the furtherance of the national defense and post-war activities. For such purposes they shall have power to do all things and enter into all agreements necessary to carry out the same, including the power to lease the whole or any part of the real property used by such college. They also shall have power to convert the whole, or part, of one or more of such State Teachers Colleges for any other State purpose.

From the date that the Normal School was recognized by the State to the present time both the Normal School and the College

has held as its objective the training of teachers for the public schools. The College now offers four curricula—Elementary, Secondary, Music, and Health and Physical Education. Special emphasis has been placed on the program of training teachers for the elementary schools. The College offers courses evenings and on Saturdays to accommodate teachers in service.

The State Department of Public Instruction in 1951 approved a program of training for the degree Bachelor of Science in Education for Public School Nurses and for Dental Hygienists. The State Teachers College at West Chester is cooperating in this program.

The program of training at the College stresses the complete and adequate preparation of teachers. The mental, physical, and spiritual needs of the students are given attention. Extra-curricular activities, lectures, entertainments, and religious club activities afford each student an opportunity to develop a wholesome personality and to build a good character.

From time to time the faculty study the needs of the College in relation to the work of the teacher in the public schools. Curriculum studies are directed both to content of subject matter areas and to the methods to be used in each field. Special Committees are appointed to study various problems and to report their findings and recommendations to the faculty. Recently a state-wide study and revision of the curricula in the several State Teachers Colleges was made. These revised curricula were put into operation with the freshman class of 1951. Further studies and adjustments are being continued especially in those areas that lend themselves to integration.

A Student-Faculty Leadership Group is a functioning unit of the College. This group is made up of students, administrative officials, and faculty members. The students represent the four college classes, the student government association, the day and dormitory councils of the men and women, and major club groups. This group considers those questions and problems that are of vital interest to the student body. Through this group means of communication are kept open so that a two-way flow of opinion and careful thinking may have a true vehicle of expression. It has proved very helpful in providing and establishing good relations among the members of the college community. It is felt that it has great carry over values in real life situations and in future citizenship activities.

Under the provisions of the school laws as indicated in Section 2009, the State Teachers College at West Chester, Pennsylvania, gives training in academic subjects to a class of nurses from the Chester County Hospital. This work constitutes a minor part of the

program of the College and does not interfere with the regular program of teacher training.

COLLEGE COMMUNITY ORGANIZATION AND ADMINISTRATION

Based upon the belief that all who share in the advantages of the college community should join in the responsibility of government, a college community has been conceived whereby faculty and students co-operate as fully as possible for the mutual advancement of the college program.

A number of achievement goals for each college year has been set up as tentative guides for a program of college life, subject to constant modification to meet new trends and needs. These goals cover the areas of administration, instruction, student life and personnel, community and service area relationship, and teacher training.

These goals are achieved through a series of committees and coordinating agencies. The Executive Committee is an advisory group of faculty and administrators aiding the President of the College in formulating and executing the general administrative policies of the institution. It is composed of the officers of administration and the heads of departments.

The standing committees represent both faculty interests and faculty-student interests. They are the Faculty Executive committee and the committees on Admission, Personnel and Guidance, Scholarship, Student Life and Activities, Athletics, and Student Teaching and Placement.

Student Government

Students elect a Student Government Association and Councils, which, working with the deans, cooperate in the government of the College.

Convocations

Weekly convocations are held throughout the year. The programs consist of lectures, concerts, recitals, plays, and other events of interest to the students.

All-Star Entertainment Course

An All-Star Entertainment Course brings to the campus each year distinguished lecturers and artists of the highest rank in music, drama, and the dance. These entertainments are available to the

students at a very small cost, which is covered by the Student Activity Fee. The College has been greatly aided in this project by the cordial cooperation received from the citizens of West Chester, members of the faculty, and students of the College. These entertainments are held in the Philips Memorial Auditorium. Among the attractions have been Lawrence Tibbett, Marion Anderson, John Charles Thomas, Grace Moore, Bidu Sayao, Helen Traubel, Mario Berini, Alexander Kipnis, Christopher Lynch, Albert Spaulding, Jascha Heifetz, Zino Francescati, Mrs. Franklin D. Roosevelt, Eve Curi, Anne O'Hare McCormick, the Joos Ballet, Svetlova, Paul Draper and Larry Adler, Luboschutz and Nemenoff, Appleton and Field, the Rochester Philharmonic Orchestra, the Cleveland Symphony Orchestra, the National Symphony Orchestra, the Baltimore Symphony Orchestra, Rise Stevens, Columbus Boy Choir, Margaret Webster's Shakespearean Company in *Macbeath*, Igor Gorin, James Melton, Margaret Chase Smith, Robert Shaw Chorale, Charles Wagner Opera in "*The Barber of Seville*," Philharmonic Piano Quartet, Eleanor Steber, Eva LaGallienne, Patrice Munsel, Little Singers of Paris, Guiseppe Valdengo, Ana Maria Spanish Dance Group, Edgar Ansel Mowrer, Leon Destine, Haitian Dancer with Alphonse Cimber, Drummer, Jennie Tourel, and The Scherman Little Symphony Society.

Musical Organizations

The College has the following well-developed musical organizations:

1. TWO COLLEGE BANDS: THE CONCERT BAND AND THE MARCHING BAND.

Membership in these organizations is determined by the student's qualifications regardless of curriculum.

2. THE CRITERIONS.

The dance band of the College consists of ten or more men, carefully selected, who furnish the music at social functions of the College.

3. THE SYMPHONY ORCHESTRA.

Membership in this organization is determined by the student's qualifications regardless of curriculum.

4. THE COLLEGE CHOIR.

A mixed chorus selected from students in the Music Education Curriculum, meeting twice a week, devoting their efforts towards acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

5. THE JUNIOR CHORUS.

All women, not in the College Choir, enrolled in the Music Education curriculum are required to take this course, devoting their efforts primarily towards acquiring the techniques of choral singing.

6. COLLEGE WOMEN'S GLEE CLUB.

Voices are carefully chosen from women of the Elementary, Secondary, and Health Education groups for this club.

7. MEN'S CHORUS.

Voices are selected from the men of the Elementary, Secondary, and Health and Physical Education curricula and joined with the men not in the College Choir for this choral group.

8. THE SINFONIETTA.

The Sinfonietta is a group of about twenty-five outstanding players chosen from the Symphony Orchestra. It was organized to bring before the College and the community compositions written especially for small orchestra.

9. OTHER MUSICAL ORGANIZATIONS.

The Musical Club and Chamber Music Groups contribute to the wealth of fine music on campus.

Intercollegiate Athletics

It has become recognized by educators and public alike that athletics are a part of general education because they provide situations that are akin to life experiences, and as such, are conducted with the purpose of developing the educational values which grow out of them.

With this in mind, the College Administration has set up an organization for the control of athletics; it has provided facilities, built schedules, and furnished instructors for the purpose of filling these educational needs.

Sports such as football, baseball, basketball, soccer, track, wrestling, swimming, tennis, gymnastics, lacrosse, golf, and cross-country, are conducted for the purpose of providing our young men with activities that not only will prove beneficial to their health but also will give them a training which will be valuable when they are called upon to coach these sports.

It is the policy of the College Administration first, to provide a variety of sports, as indicated above, in order that as many young men as possible may participate in the activity which interests them most and in which they may achieve a high degree of personal skill;

second, to provide eligibility rules that are just and sensible, yet will insure good scholarship; third, to provide schedules which are in our college class, yet are in keeping with the traditions and standing of our College; fourth, and finally, to give athletics their rightful place in our educational program of training teachers so that they will function properly in the life of the student body, but will not assume an importance out of all proportion to their value.

The State Teachers College at West Chester is a member of the National Collegiate Athletic Association, the Middle Atlantic States Collegiate Athletic Conference, and a charter member of the Eastern College Athletic Conference. In addition, West Chester conforms to the eligibility standards set by the Board of Presidents of the Pennsylvania State Teachers Colleges.

The athletic program at West Chester provides adequate player and spectator opportunities. Facilities and equipment are of the best. All team coaches are regular members of the faculty.

Intramural Athletics

An athletic program cannot be justified educationally if it is confined to intercollegiate competition alone. There must be provision for all students, so the policy of the College Administration is to expand this part of the program for both men and women, in order that a variety of activities may be supplied for all of our students. Such sports as touch football, soccer, tennis, track, speed ball, soft ball, and volley ball are organized and conducted for the men students.

Women's Recreation Association

Intramural athletics for women are conducted by the Women's Recreation Association for the social, physical, and recreational benefits of the women students of the College. Its governing council consists of the club officers and sports managers and one faculty adviser. Its program provides a wide range of activities including the modern dance, hockey, archery, volley ball, swimming, life-saving, tennis, hiking, basketball, softball, badminton, table tennis, and bowling. In addition the W.R.A. sponsors recreational evenings when both men and women students have opportunity to participate in a social dancing class, to engage in roller skating, and to join in folk and old-fashioned square dancing.

Student Health Service

The Board of Trustees has authorized and sponsored the establishment at the College of a Student Health Service. It is felt that the ideal way of handling health problems is through an official health organization designed for this purpose. Such an organization

is especially important in a teacher training institution and serves as a vital link in the chain of public health teaching. The teacher must know what health means and also the procedures by which it may be obtained.

The College maintains a modern and efficient Student Health Service. A physician, employed on a part-time basis, and two graduate nurses are on daily duty during the college year.

In case of serious illness, a student will:

1. Be removed to one of the two local hospitals after notification of the parents or guardian*, or
2. Be hospitalized at the Infirmary under the care of special nurses, whose charges will be paid by the student or responsible person, or
3. Be removed by parents or guardian to his home, and be attended by private physician until recovery is complete.

The purpose of the Student Health Service is two-fold: first, to guard the health of the student while in college; second, to develop in prospective teachers the proper scientific health attitudes and habits. First treatment is provided without charge. Students are urged to avail themselves of the facilities of the Student Health Service and to be individually active in preserving the general good health of the college group.

Students are advised that, after the initial office consultation and first aid treatment, subsequent treatments will be given by or under the advice of a physician of the student's choice. All expenses for medicine and treatment by the physician of the student's choice will be borne by the student. The physician of the student's choice may attend the student at the infirmary.

Official health certificates required for the employment of teachers in the Commonwealth are issued only when a physical examination has been made, including chest X-ray. Where the examination has been made outside the College Health Service, the physician who made the examination will be expected to sign the certificate.

Placement Service

The State Teachers College at West Chester maintains an active Education Placement Service. The Placement Director has general charge of the service. He is assisted in this work by the heads of the special curricula and by the Committee on Placement composed of the Dean of Instruction and Supervisors of Student Teaching.

* The College will assume no financial obligations for hospitalization or emergency operations that must be performed on students when recommended by the College Physician.

Members of school boards, superintendents, supervising principals, or others who are in need of trained teachers, are requested to make application to the Placement Director as early as possible. The Placement Service is in position to send out thorough and adequate information concerning each of the graduates of the College. This material is available to any school official who desires the information in connection with an application made by one of our graduates. The information covers scholastic standing, a comprehensive evaluation of the individual's student teaching experience, and general evaluations of personality, character, competency, and professional potentialities by members of the individual's major and minor departments together with a definite statement compiled by the graduate himself.

Graduates of the State Teachers College at West Chester are asked to keep in touch with the Placement Director in order that they may be recommended for better positions demanding experience. Graduates are also asked to keep the office informed of vacancies so that these positions, in turn, may be brought to the attention of teachers not placed.

The Pennsylvania Regional Film Library

The College operates a film library service for the schools in the service area surrounding West Chester. The service includes rental of films, film-strips, and projection equipment. All schools and church organizations in Bucks, Chester, Delaware and Montgomery counties are eligible for these services.

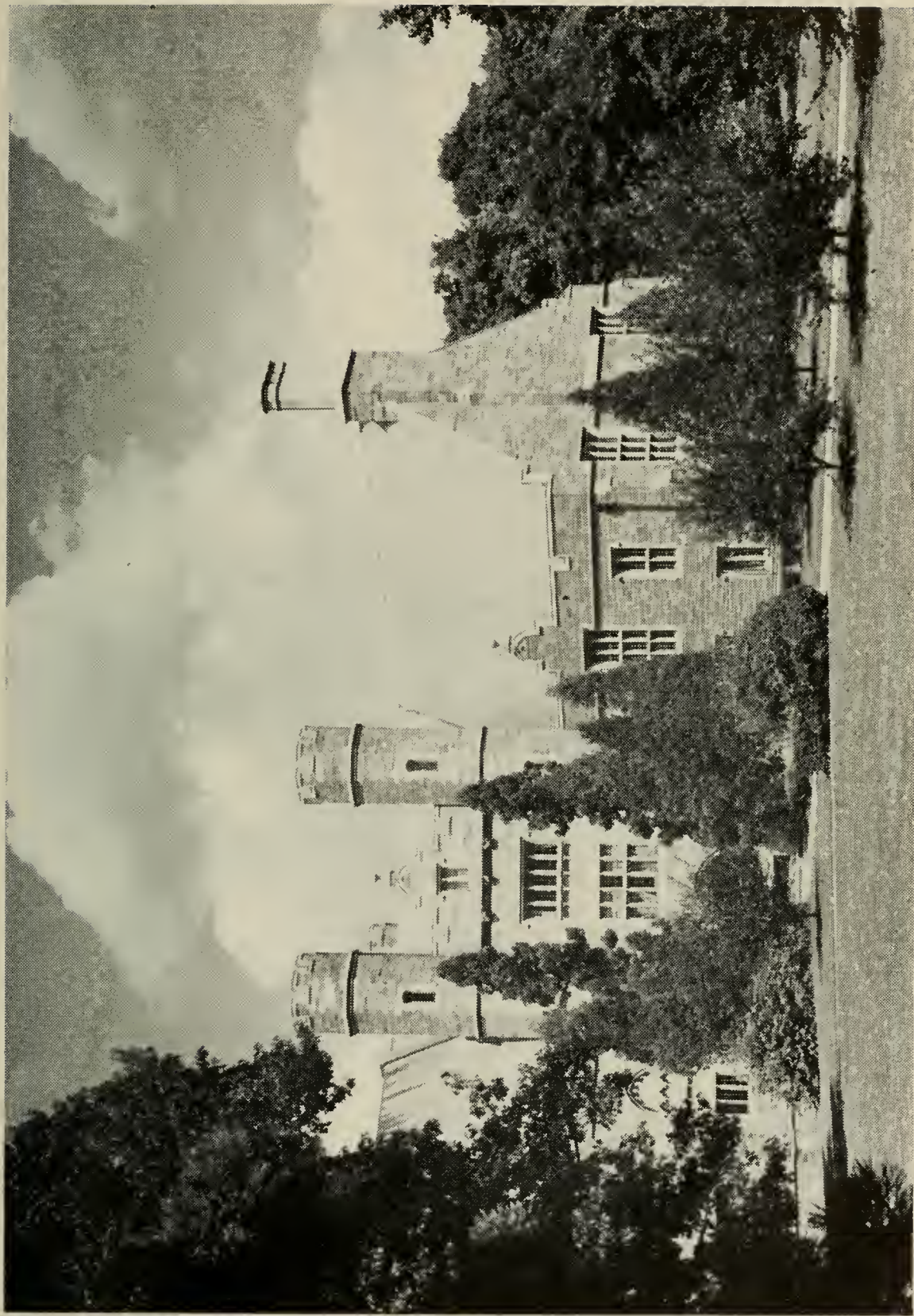
The library was established through the State Department of Public Instruction early in the spring of 1951. It maintains some three hundred titles on 16 mm. motion picture film and nearly seven hundred titles on filmstrip. The majority of titles deal with vocational and industrial subjects.

Further information can be had by correspondence with: The Pennsylvania Regional Film Library, State Teachers College, West Chester, Pa.

Classification of Students

Students in the College are classified according to the number of semester hours of credit which they have earned:

Freshmen	32 credits or less
Sophomores	33-64 credits inclusive
Juniors	65-96 credits inclusive
Seniors	97 credits or more
Special	Those who have earned a college degree or are so classified for other reasons.



PHILIPS MEMORIAL BUILDING

Marking System

The marking system now in force in the State Teachers College at West Chester provides that the grading be designated by letters as follows:

<i>Grade—Interpretation</i>	<i>Percentage Equivalents</i>	<i>Quality Points</i>
A —Excellent	A —93-100	3
B —Superior	B —85- 92	2
C —Average	C —77- 84	1
D —Passing	D —70- 76	0
F1—Failure	F1—69- 50	—1
F2—Failure	F2—49 or Lower	—2

PERCENTAGE EQUIVALENTS

For those who prefer to think of the grading in terms of figures, it has been determined that each letter represents the range of per cents shown in the second column

QUALITY POINTS:

The quality points indicated in the third column are allowed for each semester hour of work. Thus, the number of quality points earned in a three-credit course with a grade of "A" equals 3 (the number of credits) times 3 (the number of quality points allowed for an "A") or 9. Quality points are used to determine averages.

EXPLANATION:

The grading system provides that the "C" grade be interpreted as the average accomplishment; the "B" grade as accomplishment superior to the average, and the "A" grade very superior or exceptional work. The "D" grade represents accomplishment inferior to the average and indicates the lowest type of work that will be accepted as of passing grade. The "F" grade represents that accomplishment wherein the quality of work done by a student is below that represented by the "D" grade or 70 per cent. A grade of "F" implies that the course so graded must be repeated by the student.

PROVISIONS:

If because of personal illness certified by a physician, a student is not able to meet the requirements of a course at the close of a semester a grade of "I" may be assigned by the instructor. This grade indicates that the work is incomplete. This work must be completed satisfactorily by the end of the semester following the giving of the grade. Failure to meet this requirement will result in the "I" grade being changed to an "F" on the permanent record card. In no case, is a student given a grade of "I" in any course when the cause of incomplete work is irregular attendance, neg-

ligence, absence from final examination, or inability to do college grade work.

When a student fails a course by a margin so close that the instructor believes that a re-examination is justified, the student may be graded "E". In all cases where an "E" grade is assigned, the student must take the re-examination by the end of the ninth week of the semester following the giving of this grade. The final grade for an "E" (re-examination privilege) is "D". Failure to meet this requirement will result in the "E" grade being changed to an "F" on the permanent record card.

Reports to Parents

The office of the Dean of Instruction will mail a report of each student's grades to his parents or guardian after the close of each semester.

Dean's List

The dean's List is issued after the close of each semester and contains the names of those students who have earned an average of "B" or higher for the semester.

Honor Roll

The Honor Roll contains the names of those students who for the first seven semesters have maintained a record of "B" or higher.

Scholarship Requirements

A student admitted to the State Teachers College at West Chester must show that he has capacity to do academic and professional work of college grade and that he is in accord with the ideals of teacher training.

Students who earn a grade average of less than "C" during a semester will automatically be placed on academic probation for the following semester in which they are in attendance.

Students who earn a grade average of less than "C" during a period of academic probation will be subject to dismissal from the College.

Full-time students (those who carry 14 semester hours of credit or more) who do not pass at least ten semester hours of work during a semester, will be dismissed from the College.

Remedial Instruction

New students whose records are low on the Classification Tests which are administered to all incoming students may be re-

quired to carry fewer semester hours of credit than a normal class load and may be required to attend without credit remedial classes in English and/or Reading.

Resident Credit Requirements

A minimum of 32 semester hours of resident credits are required for graduation from any four-year curriculum. Graduates of any two-year normal school curriculum are required to earn at least 32 semester hours of additional resident credits to be eligible for a degree. Resident credits may be earned in day, evening, and Saturday classes which are offered on campus.

Class and Convocation Attendance

Regular and punctual attendance at classes and convocations is considered essential to sound scholarship and good campus citizenship. Upon admission to the College each student is supplied with a copy of the absence policy and agrees to conform with its provisions.

Withdrawals from College

The student should notify the Dean of Instruction, in writing, stating the reason for his intention of withdrawal from the College.

Should a student fail to comply with this requirement, the administration will, after ten days of unexplained absence, declare the student not a member of the College. The date on which his connection with the College terminates will be the day on which he last attended classes.

When a student discontinues his work at the College, either for illness or any other reason, he must notify the Dean of Instruction as soon as possible, otherwise he will receive marks of "F" in each of his courses on his permanent record card. This will result in difficulty in re-entering the College or in securing admission to another institution.

Dismissals from College

Administrative officers and the student councils may make recommendations to the President for suspension and dismissal. No student shall be suspended or dismissed from the College except upon the approval of the President.

Student Class Load

The regular student class load is 15-17 hours of credit per semester. To carry more or less than this number, a student must secure the approval of the Dean of Instruction.

Full-time Students

Full-time students are not permitted to carry less than 14 semester hours of credit.

Graduation

A student will be recommended for graduation when all the requirements for his curriculum have been met. Diplomas will not be issued until all bills and obligations to the College have been met.

The Alumni

The West Chester State Teachers College alumni number over twelve thousand and their devotion to the College is marked. The annual meeting held at the College just before commencement is well attended and active branch organizations hold meetings at the following places: Allentown, Atlantic City, Bethlehem, New York City, Pottsville, Reading, and York. The Tri-County organization consists of graduates living in Delaware County, Montgomery County, and Philadelphia.

ADMISSION TO THE COLLEGE

The State Teachers College at West Chester, Pennsylvania, has always maintained high scholastic standards and has prided itself upon preparing teachers with fine ideals and satisfactory professional training. The Administration of the College believes that only the best graduates of our high schools should be encouraged to enter the teaching profession, those graduates being first fully informed of their responsibility and ready to assume it. The children of the Commonwealth deserve nothing less than the best equipped teachers for their instructors. To this policy the Department of Public Instruction has committed itself. In furtherance of the policy, this College has accepted the following minimum requirements for those who wish to pursue professional work leading to entrance into the teaching profession of the Commonwealth. Applicants for admission to the College should carefully note these requirements and should communicate with the college authorities in the case of doubt as to the exact meaning of the regulations.

" Candidates for admission must satisfy the following requirements:

- A. General scholarship as evidenced by graduation from an approved secondary school or institution of equivalent grade, or equivalent preparation as determined by the

Secondary Education Evaluation division of the Pennsylvania Department of Public Instruction, and *ranking in the upper half of the class at graduation*. Candidates for admission who lack this rank at graduation will be required to present further evidence of fitness.

1. Applicants ranking in the upper half of their graduating class in secondary school may be admitted on certificate without further evidence of general scholarship.
 2. Applicants who do not rank in the upper half of the graduating class may be admitted on probation, provided:
 - a. They are recommended by their secondary school principals as being able to do creditable college work;
 - b. Appraisal of the detailed secondary school record indicates to admission authorities of the College that the candidate can do satisfactory college work;
 - c. A rating satisfactory to the College authorities is made on tests administered at the College.Applicants satisfactorily meeting requirements (a), (b), and (c) above may be admitted for one semester on probation. At the end of the probationary period, such students will be required to withdraw from the College unless they meet the standards of scholarship.
 3. Foreign languages, mathematics, and science are not required for admission except as listed under Special Requirements for Elective Fields (See Part V).
- B. Character and appropriate personality as shown by estimates by secondary school officials of the candidate's trustworthiness, initiative, industry, social adaptability, personal appearance, and sympathy.
- C. Health, physical vigor, emotional stability, absence of physical defects that would interfere with the successful performance of the duties of a teacher, and absence of predisposition toward ill health as determined by a medical examination at the College.
1. All applicants for admission shall present a certificate of examination signed by a physician legally qualified to practice medicine in the Commonwealth of Pennsylvania. Forms for the examination will be furnished by the College. In addition, a complete medical examination for all students is made at the College at the beginning

of each year in accordance with a requirement of the American Association of Colleges for Teacher Education.

2. Applicants may be rejected for the following reasons:
(a) incurable defects or diseases as of the heart, lungs, kidneys, digestive system, nervous system, including hysteria, epilepsy, nervous instability, skin, organs of the special senses, thyroid; (b) defective vision of marked degree; (c) permanently impaired hearing; (d) marked speech defects; (e) unsightly deformities; (f) marked obesity. Students with remedial defects may be accepted on condition that immediate treatment be undertaken for removal of these defects.

D. Normal intelligence and satisfactory command of English as shown by ratings on standard tests. The tests to be used will be prescribed each year by the Board of Presidents and will be uniform for all State Teachers Colleges.

E. A personal interview with particular attention to personality, speech habits, social presence, expressed interests of the applicant, and promise of professional development.

II. A student must be a citizen of the United States to receive either a college diploma or a teacher's certificate.

III. Special Requirements for All Candidates for Admission to the Four-Year Curriculum in Music.

Special attention will be given to the promise of professional development and musical ability of the candidate as shown by:

- A. The ability to sing songs with acceptable voice and interpretation;
- B. The ability to sing hymns and folk tunes at sight with a fair degree of accuracy and facility, using both words and syllables;
- C.
 1. Applicants whose major instrument is piano must give evidence of mastery of fourth grade material;
 2. Applicants whose major instrument is other than piano must give evidence of mastery of second grade material, or, lacking this requirement, should demonstrate sufficient musical ability to remedy this deficiency.

NOTE: The abilities called for in A, B, and C above will be determined by special tests* in sight reading, ear training, voice, piano, and musical instruments.

* These tests are administered at stated times during the spring and summer. Candidates will be notified by the Registrar when to appear.

IV. Special Requirements for All Candidates for Admission to the Four-Year Health and Physical Education Curriculum:

- A. The student must have participated in both the required physical education program and the extra curricular athletic program of his secondary school. The extent of participation in the latter will be judged upon the student's interest, aptitude, and growth in skills and knowledge of these areas.
- B. The student is required to have a personal interview with members of the Health and Physical Education Department to determine his fitness for entrance into this curriculum. When physical efficiency tests are deemed advisable, the Department will require the candidate to appear at a time set by the Registrar.

V. Special Requirements for Elective Fields:

- A. Foreign Languages.
 - 1. To elect French, students must present two high school units of French.
 - 2. To elect Latin, students must present two high school units of Latin.
- B. Mathematics.
 - 1. To elect mathematics, a student must present three high school units of mathematics of which units, algebra and plane geometry must have been taken in the senior high school.
- C. Science
 - 1. To elect Science, a student must present one unit in physics and one unit in chemistry.

Evidence of Character

All applicants for admission shall present evidence of good moral character and ideals characteristic of the teaching service.

Evaluation of Credentials

Credentials of all students entering the State Teachers College on the basis of an approved secondary school preparation are evaluated by the College; students not having an approved preparation or students whose preparation is irregular, shall have their credentials evaluated by the Secondary Education Evaluation division of the Pennsylvania Department of Public Instruction.

Evaluation of credits cannot be made on registration days. This should be attended to prior to that time. The State Teachers College at West Chester will assist students if credentials are submitted early.

Application for Admission

A student who desires to enroll for a semester beginning in September should make application by filling in the Preliminary Registration blank found at the back of this catalogue and sending it to the Registrar as soon as his decision has been made to apply for admission. During February of the year in which admission is sought, complete application forms will be mailed to all persons who have filed a Preliminary Registration. The Registrar will continue to accept applications for admission, College facilities permitting, throughout the spring and summer months of the year in which admission is desired.

A student who desires to enroll for a semester beginning in January should make application prior to December 15 by filling in the Preliminary Registration blank found at the back of this catalogue and sending it to the Registrar. Complete application forms will be mailed on or after October 15 prior to the semester for which admission is sought.

Admission of Students with Advanced Standing

RECORD OF PREVIOUS WORK.

Students who wish to enter West Chester State Teachers College and who have attended other institutions of collegiate rank shall request each institution attended to send an official transcript of work directly to the Registrar of the College.

ADVANCED CREDIT.

Advanced credit may be granted for equivalent courses in accredited institutions of collegiate grade, but no student may be graduated and receive a degree without earning a minimum of 32 semester hours of credit on campus.

Courses offered for transfer of credits will not be accepted if the grades for those courses are the lowest passing grades of the institution assigning them. If "D" is the lowest passing grade, courses so graded will not be accepted. If 70 is the lowest passing grade, no course will be accepted which is passed with a grade under 75.

To be acceptable, transcripts of work done at other colleges or universities must show an honorable dismissal of the student. Per-

sons who have been placed on academic probation at another college or university and those who have been dismissed from other institutions are not eligible for admission to West Chester State Teachers College.

STUDENT LIFE

Classification of Students

1. *Resident Students*. Resident students are of two types:
 - a. *Dormitory Students*—those who live in a college dormitory and take their meals in the college dining room. All dormitory students are required to eat in the college dining room.
 - b. *Off-Campus Students*—men who live in an approved off-campus residence and are required to take their meals in the college dining room.
2. *Day Students* are those who live at the home of their parents or legal guardians and commute daily to and from the College. Those driving cars must register with the Dean of Men.
3. *Home Employment Students* are those who, with the permission of the Director of Personnel, work for their room and board in approved homes in the community of West Chester.
4. *Special Students* are those who do not qualify in any of the above classifications. They must have the approval of the respective Deans for their living arrangements.

The classification of students is determined by the Deans of Women and Men. These deans advise on the living conditions of all students.

Resident Students are required to eat in the college dining room. The President of the College may approve exceptions to the general rule in certain very rare cases.

Application for permission to eat out of the college dining room must be filed in the office of the President of the College two weeks before the opening of each semester. The College Health Service will review each application based on a health condition, and may recommend approval, when the family physician has submitted a detailed diagnosis with a laboratory report such as blood count, urinalysis, and basal metabolism test.*

Any student granted permission to eat out of the college dining room may be required to live in an approved off-campus house.

* The College Infirmary must be furnished with a diet list prepared and signed by the family physician. This list should be made out in duplicate, one copy to be kept at the eating place of the student's choice and the other copy to be placed on file at the Infirmary.

Housing

The College has 292 rooms for women and 78 rooms for men in the respective dormitories. Rooms are provided in private homes for *Off-Campus Students*. These rooms are inspected and approved by the Dean of Men. *Off-Campus Students* are under the same regulations as dormitory students.

Students who live in the college dormitories are provided with bed linens and counterpanes. All other bed furnishings and toilet necessities are provided by the students.

A student who accepts an assignment in any college dormitory at the beginning of a semester will be responsible for the payment of the room rent fee for the entire semester. Exceptions will be made only in cases of personal illness, the same being certified to by an attending physician, or for such other reasons as may be approved by the President of the College and the Board of Trustees. A student admitted to a college dormitory after a semester begins will be responsible for the payment of the room rent fee for the balance of the semester on a prorated basis and for all Summer Sessions.

Laundry

The laundry of *Dormitory Students only*—to the extent of twelve pieces per week—is done in the College Laundry. All pieces sent to the laundry must be plainly marked with the owner's name. Name tapes sewed on articles of clothing constitute the best identification. A laundry bag should be owned and used by every student.

College Book Store

The College Book Store carries, in addition to books, a complete line of student necessities. This book store is operated as a student enterprise, the net receipts of which accrue to the benefit of the Student Activities Association.

EXTRA-CURRICULAR ACTIVITIES

The developing of the extra-curricular program, fitting it to the needs of the students, and co-ordinating its various phases into the whole of college living is the responsibility of the Director of Personnel. Questions of policy and regulations, the evaluating of the objective of an activity, and other problems are acted upon by a committee composed of faculty and students.

The program of extra-curricular activities at West Chester emphasizes four types of activities leading to individual and group development. The various clubs, organizations, activities, and re-

sponsibilities are grouped under one of four headings according to type of development emphasized. The following indicates the four types together with some of the activities included in each phase:

- Type A: Activities that center around college group life; activities of college community government and living, such as Student Activities Association Executive Board, Student Councils, Class Committees, Epicurean Club, Quad Angles, Student-Faculty Committees, Serpentine, Press Board, Little Theatre.
- Type B: Activities that promote better professional development—that train for sponsorship and organization of “extra-class” programs in the public schools. The various departments of the College sponsor professional clubs, such as Association of Childhood Education, English, French, Geography, Mathematics, Music, Social Studies, Science, men’s and women’s sports activities for health and physical education students.
- Type C: Activities that promote finer ethical values. These groups have organized a Council of Religious Clubs that plans for a unified program for the year as well as emphasizes ethical action as a united front; it is through united effort in this area that we may raise the standards of honor and character on the campus. The organizations in this group are Bible Study Club, Hillel Foundation, Newman Club, and Christian Association.
- Type D: Activities that satisfy individual interests. These activities are those of hobby groups and include a long list, such as art, athletics, glee clubs, photography, phonograph, nature study, orchestra, etc.

Extra-Curricular Requirements for Students

Each student is required to participate in the activities of a club for one semester of each of the four years on campus, and is required to take part, without credit, in one Physical Education activity each semester in which no Physical Education course or Student Teaching is required. The Extra-Curricular Activities Committee and the Personnel Department ask the co-operation of the students in taking advantage of the varied types of extra-curricular activities that are offered. In order to receive credit for participation in extra-curricular activities is necessary to meet the minimum attendance requirement and to actively take part in the activities of the club or organization.

No student is permitted to hold more than one major office and one minor office in one semester. It is hoped that in this way it may be possible to spread opportunity and divide responsibility, thus develop leaders and discover latent abilities as well as continue to enjoy the services of those who are naturally inclined to direct affairs.

Students are urged to take into account the fact that their extra-curricular participation often has an important bearing upon their placement when seeking positions. Students should keep in mind not only the placement value of their extra-curricular program but also its cultural value.

PUBLICATIONS

QUAD ANGLES, the student newspaper, is published by an undergraduate staff. Positions in the organization are open to any member of the student body with reporting or editing ability. A faculty member serves as adviser.

THE SERPENTINE is the college yearbook published under the direction of the Senior Class. This record of college activities is edited by a student staff with a faculty adviser.

THE RAM'S HORN is a publication of the Varsity Club produced on the occasion of each home game of the football season. The staff is made up from the undergraduate body of the College aided by a faculty adviser.

THE HANDBOOK is published each year as an aid to incoming freshmen. It is prepared by a student staff with the advice of a faculty sponsor.

SCHOLARSHIPS

William H. Philips Scholarships

The William H. Philips full tuition (contingent fee) scholarships are available to junior and senior students who are natives of Chester County. There are approximately thirty of these scholarships, the beneficiaries of which are selected by an administrative committee. The scholarships are awarded to members of the junior and senior classes on the basis of demonstrated scholastic ability.

Samuel Martin Scholarship Bequest

This is a fund which was left by the will of Mr. Samuel Martin "to be used to defray part of the expenses of persons of limited means who are preparing to teach . . . Persons who are assisted shall preferably be educated at the West Chester Normal School" (now State Teachers College). "Children of Friends, or persons in sym-

pathy with Friends, are preferred." Persons wishing to obtain the benefits of this fund will inform Elbert N. Pusey, Esquire, 13 North High Street, West Chester, Pennsylvania.

Theodore Presser Foundation Scholarship

A scholarship for music students is awarded by the Music Department, with the approval of the President of the College. The amount granted totals \$250.00 yearly, as approved by the Board of Trustees of the Presser Foundation. The award was first granted to West Chester in 1929. This scholarship is available to juniors and seniors in the music curriculum.

The Sarah H. Mellor Scholarship Fund of the Chester County Council of Parent-Teacher Associations

Mrs. Sarah H. Mellor was associated with the State Teachers College at West Chester as student, teacher, and member of the Board of Trustees. Her interest in education in general, in children, and in youth found expression in her devotion to the work of the Parent-Teacher Associations, especially of those in Chester County. It is therefore fitting that the Chester County Council of Parent-Teacher Associations memorialize her through this Scholarship. A joint committee from the Chester County Council of PTA and the College will make the award annually to a Chester County student who is in attendance at the State Teachers College. This award of \$50.00 each year will be based on need, character, and ability.

York County Alumni Club Award

The members of this organization have established the Elsie O. Bull Scholarship fund to be awarded each year by a Special Committee of Awards to a person from York County who is attending or will attend the State Teachers College at West Chester. Need, ability, and promise are the prerequisites necessary for consideration.

Schuylkill County Alumni Association Award

A fund has been created by this group to be awarded each year by the Scholarship Committee of the Club to a person from Schuylkill County who is attending or will attend the State Teachers College at West Chester. Need, ability, and promise are the factors considered.

Sensenig Memorial Scholarship

The scholarship is awarded annually to two juniors for excellence in mathematics.

State Scholarship

The State Department of Public Instruction offers a free scholarship of \$100.00 each year for four years to the student earning the highest score in the competitive examinations given in each county on the first Friday of May each year. This scholarship may be used at West Chester. The student should apply to his high school principal or county superintendent of schools for information and permission to take these examinations.

Friars Memorial Scholarship

This scholarship is in memory of all those West Chester men who lost their lives in World War II. The amount of the scholarship is to be \$100, annually awarded to the junior male student who has been selected on the basis of (1) high academic standing, (2) need, (3) contribution academically, socially, or athletically to the development and improvement of the College.

Delaware County Federation of Junior Women's Club Scholarship

A fund has been created by this group to be awarded by the Scholarship Committee of the Club to one or more upperclass students from Delaware County who are in attendance at the State Teachers College at West Chester.

LOANS

The College endeavors to aid needy and deserving students to take advantage of their educational opportunity. A student whose record is satisfactory in academic work and in respect to personal and community responsibility may feel that his application for aid will receive favorable consideration. Applicants apply at the Personnel Office for necessary forms.

Alumni Loans Fund

This is a fund which was created by the Alumni Association to aid needy students in their junior and senior years. The maximum loan is \$100.00 per year. Loans must be used exclusively for college expenses. Applicants must be good students and in need. Legal security is required. No interest is charged. Repayments begin at the rate of \$15.00 monthly after graduation.

Student Loan Fund

Emergency loans are made from this fund to be repaid within a year. The maximum amount loaned to any one student is \$50.00. Application forms may be secured at the Personnel Office.

Student Activities Association Loan Fund

The Student Activities Association, a student organization, has set aside \$4,000.00 as a fund to assist needy students through loans. Each application is decided upon its own merits by a committee. Application forms may be secured at the Personnel Office.

Everywoman's Club of Glenside Fund

A loan of one hundred dollars or less is available to a young woman from Abington or Cheltenham Township, Montgomery County, in her Junior or Senior year, who is recommended for such aid by the Dean of Women in the college attended. The loan may not exceed one hundred dollars in any one year or more than two hundred dollars to any one girl.

**Hannah Kent Schoff Loan Fund of the
Pennsylvania Congress of Parents and Teachers**

Loans for the purpose of training in elementary education may be made from this fund. The sum is not to exceed four hundred dollars (\$400.00) which will be received at the rate of one hundred dollars (\$100.00) per year. The applicant shall repay such loans as soon as is reasonably convenient. The recipient of a four hundred dollar loan shall be exempt from payment of one hundred dollars if he has repaid three hundred dollars by the time he has received his Pennsylvania Permanent Certificate.

All applications for loans shall be made in writing and contain such information as shall be required by the Committee on Student Loan Fund of the Pennsylvania Congress of Parents and Teachers.

STUDENT HELP EMPLOYMENT

Applications for the various types of student employment are received after May 1 of each year. Appointments for the year are made about July 1. Applications must be renewed each year.

Student Help Assistants

The College employs a limited number of students as helpers in some of the departments of the College; for example, the library,

laboratories, and offices. Positions pay sixty cents an hour, the amount earned depending upon the number of hours employed during a month. Part-time positions require twenty-five hours work per month and pay \$135.00 for the year; full-time positions require fifty hours work each month and pay \$270.00 for the year. Most of these jobs require some special form of training or skill. The money earned must be used exclusively for college expenses and is available primarily for those who could not otherwise attend college. This money will defray from one-fourth to approximately one-half of the student's college expenses.

Student Waiters

The College employs each year a number of waiters for its dining hall. Students thus employed are paid on an hourly basis and may earn from \$150.00 to \$250.00 for the year, thus defraying approximately one-third to one-half of their college expenses. Such positions are primarily available for those who could not otherwise go to college. The money thus earned must be used exclusively for college expenses.

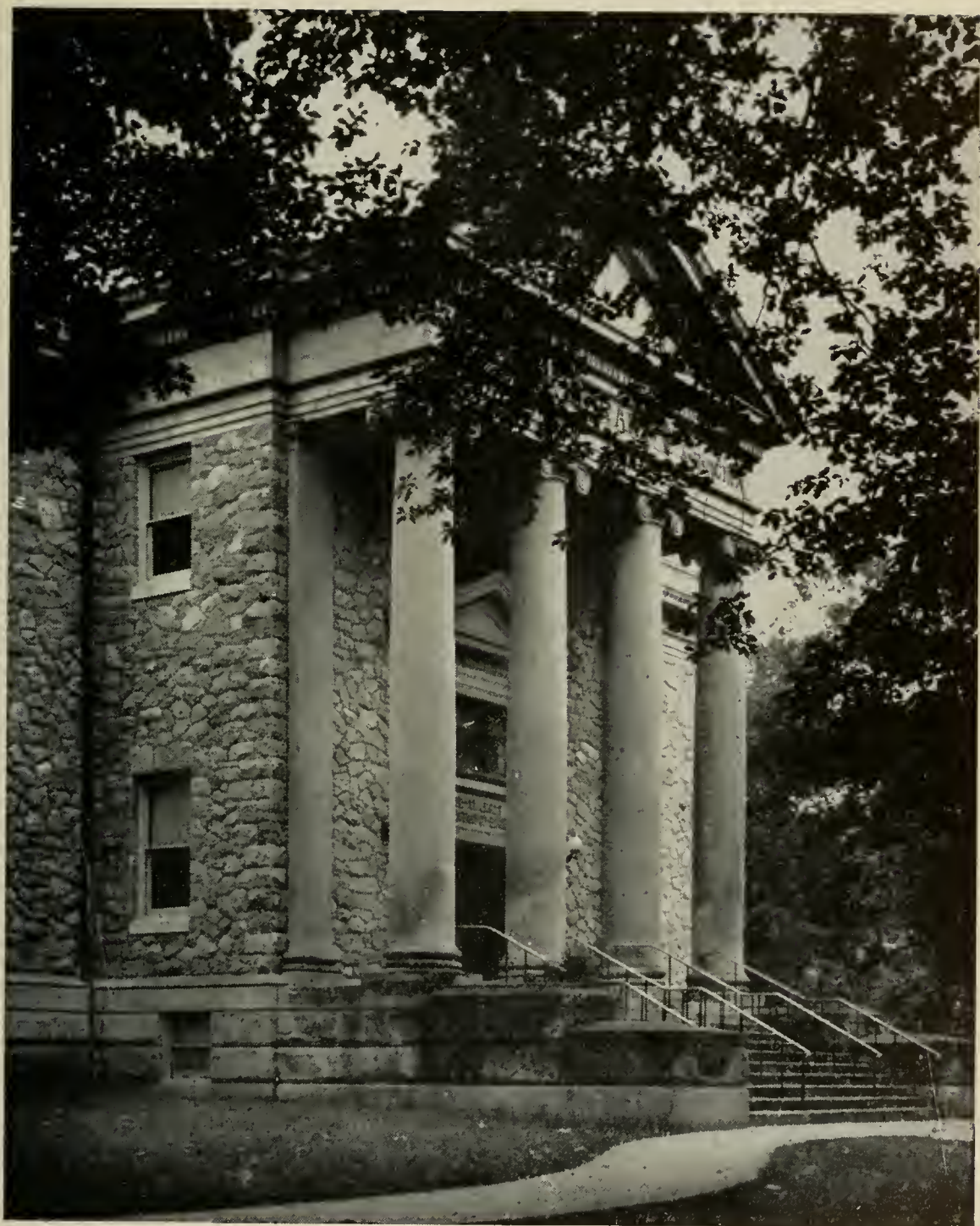
Opportunities for Earning Room and Board

Women students who need to earn the full cost of their board, room, and laundry should make applications for this type of position. Those who have had experience or training in home duties are more easily placed. The duties vary from caring for children and tutoring, to cooking, cleaning, and the performance of general household duties. Girls live under conditions and regulations approved by the College and are encouraged to participate in all college activities. This work takes care of the \$432.00 a year charged for room, meals, and laundry of the student who might otherwise live in the dormitory. Those interested should write, after May 1, for application forms to the Dean of Women. A personal interview is required by both the Dean of Women and the Housemother.

There are a few similar opportunities for men. Those interested should apply at the Personnel Office.

Part Time and Odd Jobs

The Personnel Office offers to assist students who wish to earn money toward their college expenses. Students may register for such part time work or odd job work as may come to this office from the campus or community. While the Personnel Office makes every effort to obtain places for those who wish employment, it advises against depending upon this source for any regular or dependable



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income. The opportunities range from a few dollars to nearly \$200.00 for the college year. Students who enter college with training in some special field are able to earn more than those with little or no training.

E X P E N S E S

A. UNIFORM FEES *

1. Contingent Fee—

- a. Each semester a fee † for each student is charged as follows:

Elementary Curriculum.....	\$45.00
Secondary Curriculum.....	45.00
Health and Physical Education Curriculum.....	63.00
Music Education Curriculum.....	90.00
- b. Students taking seven or less semester hours shall pay at the rate of \$7.50 per semester hour. Students taking more than seven hours shall pay the regular contingent fees provided that the regular contingent fees for special curricula shall be prorated on the basis that the number of semester hours taken is to eighteen semester hours.
- c. Students taking extension courses shall pay at the rate of \$7.50 per semester hour, provided that the regular fees for special curricula shall be prorated on the basis that the number of semester hours taken is to eighteen semester hours.
- d. The President of the College may, at his discretion, authorize payments for not less than one month in advance by worthy students.

2. Fee for Out-of-State Students

Students whose legal residence is out-of-state will be charged a fee of \$7.50 per semester hour. Out-of-state students carrying the regular sixteen hour semester load will pay \$120.00 each semester. In addition, Health and Physical Education students will pay \$18.00 and Music Education students will pay \$45.00 per semester.

* The acceptance of a student is for a semester. Parents or guardians who are providing for the expense of a student at the College should understand that their financial obligations are for a full semester. Fees are subject to change without notice.

† This fee covers registration and keeping of records of students, library, student welfare, health service (other than extra nurse and quarantine), and laboratory facilities.

3. Housing Fee

a. Housing rate for students.

The housing rate for students is \$216.00 per semester.

This includes room, meals, and limited laundry (for dormitory students only) during the time the College is officially in session (excludes holidays and vacations).

Students will vacate dormitory rooms on the day college vacations begin. Rooms may be occupied no earlier than noon of the day preceding the end of a college vacation.

- (1) An additional charge of \$9.00 per student will be made each semester for rooms with running water.
- (2) A student may, at the discretion of the President of the College, occupy a double room alone by paying an additional \$36.00 fee each semester.
- (3) For the purpose of meeting the requirements of those college students who live in off-campus rooming houses but board in the college dining room, the housing rate will be divided, \$3.00 for room and laundry and \$9.00 for table board.
- (4) No reduction in the rates is to be made for the absence of students who go home for a few days at a time, nor for laundry done at home.
- (5) Students not living in the college dormitories but living in houses approved by the College will be responsible for their own laundry.

b. Housing rates for employees other than those included in the State Classification Schedule (faculty, clerks, etc.) are \$13.00 per week, divided \$9.00 for meals and \$4.00 for room and laundry.

c. The rate for separate meals is:

Breakfast \$.50

Lunch \$.75

Dinner \$1.00

d. The President of the College may, at his discretion, authorize payments for not less than one month in advance by worthy students.

4. Damage Fee

Students will be responsible for damages, breakage, loss, or delayed return of college property. The rooms are fully equipped for students at entrance. Any damage done to furniture, furnishings, or buildings beyond that which comes from use, will be charged to students. At the opening of the year all necessary

electric lamps are furnished free. Thereafter, students pay for extra light bulbs. If damage results from using appliances other than those provided by the College, a proportionate amount will be charged to all students accountable.

5. Infirmary Fee

For minor illness, boarding students are charged \$1.00 for each day after the third day in the College Infirmary. This charge is exclusive of the fees of physicians, the expenses of employing trained nurses, and the cost of medicine, for all of which the students or the parents thereof are responsible. For the first three days no charge is made. In case of serious illness, students are removed to a hospital where they will bear their own expenses. Day students who are admitted to the Infirmary will pay board at the rate of \$2.00 per day.

6. Private Music Instruction Fees

- a. Students enrolled in the Music Education Curriculum do not pay extra fees for private instruction in voice, piano, band, or orchestral instruments. Such instruction is included in the contingent fee. There is no charge for the use of pianos for practice. A rental charge is made for the following:
 - (1) Pipe organ for practice one period per day, \$36.00 each semester.
 - (2) Orchestral instruments, \$6.00 per semester.
- b. Charges applicable to students in the Elementary, Secondary, or Health and Physical Education Curriculum.
 - (1) Voice, piano, band, or orchestral instruments, \$24.00 each semester—for one lesson per week. Pipe organ, \$42.00 each semester—for one lesson per week.
 - (2) Rental of piano for practice, one period per day, \$6.00 each semester.
Rental of pipe organ for practice, one period per day, \$36.00 each semester.
Rental of band or orchestral instruments, \$6.00 each semester.

7. Miscellaneous Fees

- a. Degree Fee
A fee of \$5.00 must be paid by each candidate for a degree to cover the cost of the diploma.

b. Record Transcript Fee

One dollar (\$1.00) will be charged for the second and each subsequent transcript of records.

c. Late Registration Fee and Late Payments

A late registration fee of \$1.00 per day, not to exceed \$5.00, will be paid by students who do not register on the appointed registration day, except where pre-approval has been obtained from the President of the College. The same regulations shall apply to approved inter-semester payments.

8. Delinquent Accounts

No student will be enrolled, graduated, or receive a transcript of his record until all charges have been paid.

B. DEPOSITS

Advanced Registration Deposit

A deposit of \$10.00 must be made by all applicants as the final step in completing the admission process. This fee is not to be sent until the applicant receives notice of acceptance to the College. It is a guarantee of the intention of the applicant to enter college for the term or semester designated. It is deposited with the State Revenue Department to the credit of the applicant's contingent fee. If, however, the applicant notifies the College at least *three weeks* before the opening of college that he is unable to enter, or if the applicant is rejected by the College, repayment of this deposit will be made upon application by the student to the College Bursar. Check or money order for this amount should be drawn to the Commonwealth of Pennsylvania, Harrisburg, Pa. The College is not responsible for currency sent in unregistered letters.

C. ADDITIONAL COSTS

1. Activity Fee

A fee to be determined by each institution will be collected from all students (except those noted below) and administered under regulations approved by the Board of Trustees through a cooperative organization. This fee will cover the cost of student activities in athletics, lectures, entertainments, student publications, et cetera. Students taking extension courses or regular session students taking less than seven semester hours may

secure the benefits of the Activities Program by the payment of the Student Activity Fee. This fee, as determined and collected by the Student Activities Association of the State Teachers College at West Chester, is \$12.50 for each semester.

2. Books

Each student purchases his own books. These may be bought at the College Book Store. The cost of books for a student is approximately \$25.00 each semester.

3. Gymnasium Outfits

a. Health and Physical Education Students

1. All Health and Physical Education men students are required to purchase athletic and gym outfits costing approximately fifteen dollars (\$15.00) the first semester, fifteen dollars (\$15.00) the third semester, and twenty dollars (\$20.00) in the student teaching semester.
2. Health and Physical Education women students are required to purchase gym outfits costing approximately thirty dollars (\$30.00). This expenditure occurs at the beginning of the first semester.

b. Elementary, Secondary, and Music Students

In the second semester of the freshman year all students other than those registered in the field of Health and Physical Education are required to purchase a regulation gym outfit. For the women students this outfit will include a pair of blue shorts, a white shirt, a white sweat shirt, white socks, and white canvas tennis shoes. This regulation outfit may be purchased in the stores of West Chester at an approximate cost of ten dollars (\$10.00).

For the men students this regulation outfit includes a pair of white shorts, a white T-shirt, white socks, canvas gym shoes, gray sweat pants, and gray sweat shirt. The approximate cost of this gym outfit is fifteen dollars (\$15.00).

4. Identification Cards

A charge not exceeding fifty cents (\$.50) will be made for Student Identification Cards on the day of registration. Identification cards are used to admit students to college functions sponsored by the Student Activities Association and to the College dining room. Identification cards show each student's photograph, personal data, and rules pertaining to their use. Lost identification cards will be replaced at a cost of one dollar (\$1.00).

5. Dues

Each student will pay either a Day Student or Dormitory Council fee of nominal amount which currently is fifty cents (\$.50) per year.

Class dues, which are determined by each class, are payable for each year. For the current year the dues are as follows: Freshmen—\$1.00; Sophomores—\$2.00; Juniors—\$8.00; Seniors—\$10.00.

D. REPAYMENTS

1. Repayments will be made:

- a. In case of personal illness, the same being certified to by an attending physician, or for such other reasons as may be approved by the Board of Trustees, the amount of the housing and contingent fees paid by the student for the part of the semester which the student does not spend in college will be refunded.
- b. The advance registration deposit will be returned to an applicant provided he notifies the College not less than *three weeks* before the opening of the semester or term of his intention not to attend, or in case the applicant is rejected by the College.

2. Repayments will not be made:

- a. To students who are temporarily suspended, indefinitely suspended, dismissed, or who voluntarily withdraw from the College.
- b. Of the advance registration deposit or any part except where applicants give notice of their intention to withdraw at least *three weeks* before the College opens or when the applicant is rejected by the College.

SUMMARY OF COSTS PER YEAR

1. Elementary or Secondary Education Curriculum:

a. Boarding at the College

Contingent Fee	\$ 90.00
Activity Fee	25.00
Books (approximately)	50.00
Room, board, laundry	432.00
	<hr/>
	\$597.00*

* Cost of gymnasium outfits must be added to this total. See page 53 for cost.

b. Day Students—Living at Home

Contingent Fee	\$ 90.00
Activity Fee	25.00
Books (approximately)	50.00
	<hr/>
	\$165.00*

2. Health and Physical Educational Curriculum:**a. Boarding at the College**

Contingent Fee	\$126.00
Activity Fee	25.00
Books (approximately)	50.00
Room, board, laundry	432.00
	<hr/>
	\$633.00*

b. Day Students—Living at Home

Contingent Fee	\$126.00
Activity Fee	25.00
Books (approximately)	50.00
	<hr/>
	\$201.00*

3. Music Education Curriculum:**a. Boarding at the College**

Contingent Fee	\$180.00
Activity Fee	25.00
Books (approximately)	50.00
Room, board, laundry	432.00
	<hr/>
	\$687.00*

b. Day Students—Living at Home

Contingent Fee	\$180.00
Activity Fee	25.00
Books (approximately)	50.00
	<hr/>
	\$255.00*

The College sends out bills twice a semester, once at the beginning of the semester, and again at the end of the first half of the semester. This divides the payments per year into four units. If special arrangements other than the above are desired, the student should consult the Bursar of the College.

Checks for contingent fee and for room, board, and laundry should be drawn payable to the COMMONWEALTH OF PENNSYLVANIA.

The checks for the ACTIVITY FEE should be made payable to the Student Activities Association at West Chester, Pa.

No fees or deposits other than those specified above may be charged by a State Teachers College.

* Cost of gymnasium outfits must be added to this total. See page 53 for cost.

CURRICULA OFFERED AT WEST CHESTER

1. Elementary Education Curriculum (see pages 56-57)
2. Secondary Education Curriculum (see pages 58-68)
3. Health and Physical Education Curriculum (see pages 69-70)
4. Music Education Curriculum (see pages 71-72)
5. Degree Curriculum for Dental Hygienists (see pages 73-74)
6. Degree Curriculum for Public School Nurses (see pages 75-76)

1. THE ELEMENTARY CURRICULUM

Upon satisfactory completion of the requirement of this curriculum the student will be granted the degree of Bachelor of Science in Education and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. The certificate will be valid for teaching in the kindergarten and grades one to six inclusive, and for grades seven and eight when they are not a part of an approved junior high school or junior-senior high school in Pennsylvania.

(Sequence of courses subject to change for administrative reasons)

FIRST SEMESTER			SECOND SEMESTER		
	Hours Clock	Sem.		Hours Clock	Sem.
Communications I _____	5	5	Communications II _____	5	5
or English I (3-3)			or English II (3-3)		
and Speech I (2-2)			and Speech II (2-2)		
Professional Orientation _____	3	3	**Introduction to Art _____	3	2
Basic Biology _____	4	3	**Introduction to Music _____	3	2
Health _____	2	2	Basic Physical Science _____	4	3
World Geography _____	3	3	*Physical Education I _____	2	1
	—	—	Geography of the United		
	17	16	States and Pennsylvania ____	3	3
				—	—
				20	16
THIRD SEMESTER			FOURTH SEMESTER		
World Culture I _____	5	5	World Culture II _____	5	5
or General Literature I (2-2)			or General Literature II (2-2)		
and History of Civilization			and History of Civilization		
I (3-3)			II (3-3)		
Music for the Elementary			Audio-Visual Education _____	3	2
Grades _____	2	2	Teaching of Music in the		
*Physical Education II _____	2	1	Elementary Grades _____	4	3
Science for the Elementary			Teaching of Art in the		
Grades _____	3	3	Elementary Grades _____	4	3
Art for the Elementary			*Physical Education III _____	2	1
Grades _____	2	2	Elective _____	2	2
Elective _____	3	3		—	—
	—	—		20	16
	17	16			

* Physical Education I, II, and III may be individual or group activity.

** All or any part of these courses may be scheduled as a part of the unit in World Culture and the corresponding semester hours added to World Culture.

A student may be given the privilege of taking an examination in any subject matter area for the purpose of securing exemption from taking a course. A student shall be given credit for a course in which he registers and in which he demonstrates competence by a qualifying examination.

FIFTH SEMESTER			SIXTH SEMESTER		
	Hours			Hours	
	Clock	Sem.		Clock	Sem.
History of the United States and Pennsylvania I -----	3	3	History of the United States and Pennsylvania II -----	3	3
Language Arts in the Elementary Grades -----	9	9	Child Development -----	3	3
or Teaching of Reading (3-3), Teaching of Language (3-3), and Children's Literature (3-3)			Social Living in the Elementary Grades -----	9	9
General Psychology -----	3	3	or Teaching of Arithmetic (3-3), Elementary Science (3-3), Social Studies and Geography (3-3)		
Teaching of Health -----	3	2	Elective -----	3	3
	<u>18</u>	<u>17</u>		<u>18</u>	<u>18</u>
SEVENTH SEMESTER			EIGHTH SEMESTER		
American Citizenship -----	6	6	Student Teaching and Direction of Student Activities -----	30	12
Option 1. Home and Family Living (3-3) and American Government (3-3), or			Professional Practicum including School Law -----	2	2
Option 2. Introduction to Philosophy (3-3) and American Government (3-3)				<u>32</u>	<u>14</u>
Educational Psychology and Evaluative Techniques -----	3	3	Total Semester Hours Required for Graduation -----		128
Electives -----	6	6			
	<u>15</u>	<u>15</u>			

SPECIALIZATION AND ELECTIVES

Students may specialize in Early Childhood, in Intermediate Grade, or in Upper Grade teaching by selecting appropriate electives.

ELECTIVES:	Hours	
	Clock	Semester
Arts and Crafts -----	3	3
Child Adjustment -----	3	3
Child Psychology -----	3	3
Creative Activities in the Elementary School -----	3	3
Creative Art -----	3	3
Creative Design -----	3	3
Diagnostic and Remedial Reading -----	3	3
Harmony I -----	3	3
Harmony II -----	3	3
History and Appreciation of Music -----	3	3
Pre-School Education -----	3	3
Problems in Elementary School Art -----	3	3
School and Community -----	3	3
Speech Development and Improvement -----	3	3
Speech Problems -----	3	3
Teaching the Exceptional Child -----	3	3

Students may also elect courses in academic fields and special curricula offered at the College.

2. THE SECONDARY CURRICULUM

Upon satisfactory completion of the requirements of this curriculum the student will be granted the degree of Bachelor of Science in Education and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. This certificate will be valid for teaching specific subjects in an approved secondary school in Pennsylvania. Students are required to choose two areas of specialization. These are indicated on the following pages.

(Sequence of courses subject to change for administrative reasons)

FIRST SEMESTER			SECOND SEMESTER		
	Hours			Hours	
	Clock	Sem.		Clock	Sem.
Communications I -----	5	5	Communications II -----	5	5
or English I (3-3)			or English II (3-3)		
and Speech I (2-2)			and Speech II (2-2)		
Basic Biology -----	4	3	Basic Physical Science -----	4	3
Health -----	2	2	*Physical Education I -----	2	1
World Geography -----	3	3	Professional Orientation -----	3	3
Elective -----	2	2	Fundamentals of Mathematics	3	3
	—	—	Elective -----	2	2
	16	15		—	—
				19	17
THIRD SEMESTER			FOURTH SEMESTER		
World Culture I -----	5	5	World Culture II -----	5	5
or General Literature I (2-2)			or General Literature II (2-2)		
and History of Civil-			and History of Civiliza-		
ization I (3-3)			tion II (3-3)		
**Introduction to Art -----	3	2	**Introduction to Music -----	3	2
*Physical Education II -----	2	1	*Physical Education III -----	2	1
Science in Modern Civilization	3	3	Electives -----	9	9
Electives -----	6	6		—	—
	—	—		19	17
	19	17			
FIFTH SEMESTER			SIXTH SEMESTER		
History of the United States			History of the United States		
and Pennsylvania I -----	3	3	and Pennsylvania II -----	3	3
Audio-Visual Education -----	3	2	Problems of Secondary Educa-		
General Psychology -----	3	3	tion, including Guidance ---	3	3
Electives -----	8	8	Educational Psychology and		
	—	—	Evaluative Techniques -----	3	3
	17	16	Electives -----	7	7
				—	—
				16	16

* Physical Education I, II, and III may be individual or group activity.

** All or any part of these courses may be scheduled as part of the unit in World Culture. If combined, the semester hours devoted to World Culture will be correspondingly increased.

SEVENTH SEMESTER			EIGHTH SEMESTER		
American Citizenship	-----	6 6	Student Teaching and Direc-		
Option 1. Home and Family			tion of Student Activities	---30	12
Living (3-3)			Professional Practicum		
and American Government			including School Law	-----	2 2
(3-3)					
Option 2. Introduction to				32	14
Philosophy (3-3)			Total Semester Hours required		
and American Government			for Graduation	-----	128
(3-3)					
Electives	-----	10 10			
		16 16			

Graduation requirements for this curriculum include specialization in not less than two teaching fields.

1. The first field shall require not fewer than thirty (30) semester hours, except the General Field of Science where the requirement is thirty-eight (38) semester hours, and the field of English where the requirement is thirty-five (35) semester hours. The fields included in this recommendation are:

Social Studies, History, Social Science,
Biological Science, and Physical Science.

and not fewer than twenty-four (24) semester hours in:

Foreign Languages, Geography, Mathematics,
Chemistry, and Physics.

2. The second field shall require not fewer semester hours than the minimum required for certification.

A student may be given the privilege of taking an examination in any subject matter area for the purpose of securing exemption from taking a course. A student shall be given credit for a course in which he registers and in which he demonstrates competence by a qualifying examination.

AREAS OF SPECIALIZATION

English

(First field 35 Semester Hours; Second field 18 Semester Hours)

	<i>Hours</i>	
	<i>Clock</i>	<i>Semester</i>
REQUIRED—13 semester hours		
*Communications I	5	3
or English I (3-3)		
and Speech I (2-2)		
*Communications II	5	3
or English II (3-3)		
and Speech II (2-2)		

* Each course will count 3 Semester Hours toward certification in English.

*World Culture I-----	5	2
or General Literature I (2-2)		
and History of Civilization I (3-3)		
	<i>Hours</i>	
	<i>Clock</i>	<i>Semester</i>
*World Culture II-----	5	2
or General Literature II (2-2)		
and History of Civilization II (3-3)		
Recent Trends in the Teaching of English-----	3	3

RESTRICTED ELECTIVES (apply only to first teaching field)

At least one course must be selected from each of Groups 1, 2, 3, and 4.

Group 1. SURVEY COURSES

American Literature-----	3	3
English Literature-----	3	3
American Poetry-----	3	3
American Prose-----	3	3
Children's Literature-----	3	3

Group 2. PERIOD COURSES

Pre-Shakespearean Literature-----	3	3
Shakespeare-----	3	3
18th Century Literature-----	3	3
The Romantic Movement-----	3	3
Victorian Literature-----	3	3

Group 3. LITERARY FORM COURSES

Criticism-----	3	3
Modern Drama-----	3	3
The Novel to 1870-----	3	3
Contemporary Novel-----	3	3
Essay-----	3	3
Contemporary Poetry-----	3	3
Short Story-----	3	3
Literature of Biography-----	3	3

Group 4. COMPOSITION

Creative Writing-----	3	3
Journalism-----	3	3
Advanced Composition-----	3	3
English Philology and Grammar-----	3	3

* World Culture I and II are composite courses. Each course will count 2 Semester Hours toward certification in English.

French

(First field 24 Semester Hours; Second field 18 Semester Hours)

	<i>Hours Clock</i>	<i>Semester</i>
REQUIRED—12 semester hours		
*French I-----	3	3
*French II-----	3	3
French III-----	3	3
French IV-----	3	3

ELECTIVES

French V—Survey of Literature-----	3	3
French VI—Survey of Literature-----	3	3
French VII—Advanced Language and Techniques-----	3	3
French VIII—French Classical Drama-----	3	3
French IX—French Literature of the 19th Century-----	3	3
French X—Development of the French Novel-----	3	3

Latin

To specialize in Latin, students must present not less than two years of secondary school Latin and demonstrate competence to specialize in this field.

(First field not offered; Second field 18 Semester Hours)

REQUIRED—18 semester hours

Latin I—Ovid and Virgil-----	3	3
Latin II—Livy-----	3	3
Latin III—Cicero and Tacitus Selections-----	3	3
Latin IV—Horace-----	3	3
Latin V—Plautus and Terence-----	3	3
Latin VI—Roman Civilization-----	3	3

* Two units of high school French satisfy these requirements.

Geography

(First field 24 Semester Hours; Second field 18 Semester Hours)

	<i>Hours</i>	
	<i>Clock</i>	<i>Semester</i>
REQUIRED—6 semester hours		
World Geography.....	3	3
Teaching of Geography in Secondary Schools.....	3	3

RESTRICTED ELECTIVES (apply only to first teaching field)

At least one course must be chosen from each of Groups 1, 2, and 3.

Group 1. EARTH STUDIES

Climatology	3	3
Geology	3	3
Meteorology	3	3
Physiography	3	3
Cartography	3	3

Group 2. ECONOMIC GEOGRAPHY

Economic Geography.....	3	3
Commercial Air Transportation.....	3	3
Conservation of Natural Resources.....	3	3
Geographic Influence in American History	3	3
Trade and Transportation.....	3	3

Group 3. REGIONAL STUDIES

Geography of Pennsylvania.....	3	3
Geography of Asia.....	3	3
Geography of Africa and Australia.....	3	3
Geography of Europe.....	3	3
Geography of the Far East.....	3	3
Geography of Latin America.....	3	3
Geography of the United States and Canada.....	3	3
World Problems in Geography.....	3	3
Field Course (as approved).....	3	3

Mathematics

(First field 24 Semester Hours; Second field 18 Semester Hours)

Students demonstrating competence to specialize in Mathematics will not be required to take Fundamentals of Mathematics.

	<i>Hours</i>	
	<i>Clock</i>	<i>Semester</i>
REQUIRED—18 semester hours		
College Algebra.....	3	3
Trigonometry.....	3	3
Analytic Geometry.....	3	3
Calculus I (Differential).....	3	3
Calculus II (Integral).....	3	3
Teaching Mathematics in Secondary Schools.....	3	3

ELECTIVES

Advanced College Algebra.....	3	3
College Geometry.....	3	3
Spherical Trigonometry and Navigation.....	3	3
Statistics.....	3	3
History of Mathematics.....	3	3
Calculus III.....	3	3
Mathematics of Finance.....	3	3
Field Work in Mathematics.....	3	3

Social Studies

(First field 30 Semester Hours; 15 in History, 15 in Social Science)

REQUIRED—27 semester hours

*World Culture I.....	5	3
or General Literature I (2-2)		
and History of Civilization I (3-3)		
*World Culture II.....	5	3
or General Literature II (2-2)		
and History of Civilization II (3-3)		
History of the United States and Pennsylvania I.....	3	3
History of the United States and Pennsylvania II.....	3	3
American Citizenship.....	6	6
or American Government (3-3)		
and Home and Family Living (3-3);		
or American Government (3-3)		
and Introduction to Philosophy (3-3)		
Principles of Sociology.....	3	3
Principles of Economics.....	3	3
Teaching of Social Studies in Secondary Schools.....	3	3

* World Culture I and II are composite courses. Credit in each is 3 Semester Hours for certification in Social Studies.

ELECTIVES

	<i>Hours</i>	
	<i>Clock</i>	<i>Semester</i>
History of Europe to 1815.....	3	3
History of Europe since 1815.....	3	3
History of Pennsylvania.....	3	3
History of England.....	3	3
Twentieth Century World.....	3	3
Diplomatic History of the United States.....	3	3
International Relations 1919 to Present.....	3	3
History of Latin America.....	3	3
Renaissance to Reformation.....	3	3
History of the Middle East and India.....	3	3
History of the Far East.....	3	3
The United Nations Organization and Function...	3	3
Contemporary Social Problems.....	3	3
Contemporary Economic Problems.....	3	3
Municipal Government.....	3	3
State and Local Government.....	3	3
Comparative Government.....	3	3
Consumer Education.....	3	3
Industrial Relations.....	3	3

History

(First field 30 Semester Hours; Second field 24 Semester Hours)

REQUIRED—21 semester hours

*World Culture I.....	5	3
or General Literature I (2-2)		
and History of Civilization I (3-3)		
*World Culture II.....	5	5
or General Literature II (2-2)		
and History of Civilization II (3-3)		
History of the United States and Pennsylvania I...	3	3
History of the United States and Pennsylvania II...	3	3
American Citizenship.....	6	6
or American Government (3-3)		
and Home and Family Living (3-3)		
or Introduction to Philosophy (3-3)		
Teaching of Social Studies in Secondary Schools...	3	3

* World Culture I and II are composite courses. Each course will count 3 Semester Hours toward certification in History.

ELECTIVES

	<i>Hours</i>	
	<i>Clock</i>	<i>Semester</i>
History of Europe to 1815.....	3	3
History of Europe since 1815.....	3	3
History of Pennsylvania.....	3	3
History of England.....	3	3
Twentieth Century World.....	3	3
Diplomatic History of the United States.....	3	3
International Relations 1919 to Present.....	3	3
History of Latin America.....	3	3
Renaissance to Reformation.....	3	3
History of the Middle East and India.....	3	3
History of the Far East.....	3	3
The United Nations Organization and Function...	3	3
Principles of Sociology.....	3	3
Principles of Economics.....	3	3

Social Science

(First field 30 Semester Hours; Second field 24 Semester Hours)

REQUIRED—27 semester hours

*World Culture I.....	5	3
or General Literature I (2-2)		
and History of Civilization I (3-3)		
*World Culture II.....	5	3
or General Literature II (2-2)		
and History of Civilization II (3-3)		
History of the United States and Pennsylvania I...	3	3
History of the United States and Pennsylvania II...	3	3
American Citizenship.....	6	6
or American Government (3-3)		
and Home and Family Living (3-3)		
or Introduction to Philosophy (3-3)		
Principles of Sociology.....	3	3
Principles of Economics.....	3	3
Teaching of Social Studies in Secondary Schools...	3	3

* World Culture I and II are composite courses. Credit in each is 3 Semester Hours for certification in Social Science.

ELECTIVES

	<i>Hours</i>	
	<i>Clock</i>	<i>Semester</i>
Contemporary Social Problems.....	3	3
Contemporary Economic Problems.....	3	3
Consumer Education.....	3	3
Municipal Government.....	3	3
State and Local Government.....	3	3
Comparative Government.....	3	3
Industrial Relations.....	3	3
The United Nations Organization and Function..	3	3

General Field of Science

(First field 38 Semester Hours; No second field)

Students demonstrating competence to specialize in the General Field of Science will not be required to take Basic Biology or Basic Physical Science.

REQUIRED—38 semester hours

Botany I.....	6	4
Botany II.....	6	4
Zoology I.....	6	4
Zoology II.....	6	4
Inorganic Chemistry I.....	6	4
Inorganic Chemistry II.....	6	4
*Earth Science.....	3	3
Physics I.....	6	4
Physics II.....	6	4
Teaching of Science in the Secondary School.....	3	3

Biological Science

(First field 30 Semester Hours; Second field 18 Semester Hours)

Students demonstrating competence to specialize in Biological Science will not be required to take Basic Biology.

* To be selected from Geography Group I. See page 62.

REQUIRED COURSES—19 semester hours

Botany I.....	6	4
Botany II.....	6	4
Zoology I.....	6	4
Zoology II.....	6	4
Teaching of Science in the Secondary School.....	3	3

RESTRICTED ELECTIVES (apply only to first teaching field)

At least one course must be selected from each group.

		<i>Hours</i>	
		<i>Clock</i>	<i>Semester</i>
Group 1.	FIELD COURSES		
	Field Botany.....	5	3
	Ornithology.....	5	3
	Entomology.....	5	3
	Ecology.....	5	3
	Field Zoology.....	5	3
Group 2.	LABORATORY COURSES		
	Vertebrate Anatomy.....	5	3
	Physiology.....	5	3
	Microbiology.....	5	3
	Parasitology.....	5	3
	Genetics.....	5	3

Chemistry

(First field 24 Semester Hours; Second field 18 Semester Hours)

Students demonstrating competence to specialize in Chemistry will not be required to take Basic Physical Science.

REQUIRED—25 semester hours

Inorganic Chemistry I.....	6	4
Inorganic Chemistry II.....	6	4
Qualitative Analysis.....	7	3
Quantitative Analysis.....	7	3
*Physics I.....	6	4
*Physics II.....	6	4
Teaching of Science in the Secondary School.....	3	3

ELECTIVES

Organic Chemistry I.....	6	4
Organic Chemistry II.....	5	3
Biological Chemistry.....	6	3
Physical Chemistry.....	5	3
Colloidal Chemistry.....	6	3
Industrial Chemistry.....	5	3
Chemistry of Foods and Nutrition.....	6	3
Water Analysis.....	4	2

* Required only for first teaching field; not required for second field.

Physical Science

(First field 24 Semester Hours; Second field 18 Semester Hours)

Students demonstrating competence to specialize in Physical Science will not be required to take Basic Physical Science.

	<i>Hours</i>	
	<i>Clock</i>	<i>Semester</i>
REQUIRED—19 semester hours		
Inorganic Chemistry I.....	6	4
Inorganic Chemistry II.....	6	4
Physics I.....	6	4
Physics II.....	6	4
Teaching of Science in the Secondary School.....	3	3

ELECTIVES

To be selected from Chemistry, Earth Science, or Physics

Physics

(First field 24 Semester Hours; Second field 18 Semester Hours)

Students demonstrating competence to specialize in Physics will not be required to take Basic Physical Science.

College Algebra and Trigonometry are prerequisites for specializing in Physics as a first field.

REQUIRED—19 semester hours

Physics I.....	6	4
Physics II.....	6	4
*Inorganic Chemistry I.....	6	4
*Inorganic Chemistry II.....	6	4
Teaching of Science in the Secondary School.....	3	3

ELECTIVES

Electricity and Magnetism.....	6	4
Mechanics	6	4
Heat	6	4
Electronics	5	3
Optics	5	3
Sound	5	3
Physical Measurements.....	Variable	

* Required only for first teaching field; not required for second field.

3. THE HEALTH AND PHYSICAL EDUCATION CURRICULUM

Upon satisfactory completion of the requirements of this curriculum the student will be granted the degree of Bachelor of Science in Health Education and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. The certificate will be valid for teaching and supervising Health and Physical Education in the elementary and secondary schools of Pennsylvania.

(Sequence of courses subject to change for administrative reasons)

FIRST SEMESTER			SECOND SEMESTER		
	Clock	Hours Sem.		Clock	Hours Sem.
Communications I -----	5	5	Communications II -----	5	5
or English I (3-3)			or English II (3-3)		
and Speech I (2-2)			and Speech II (2-2)		
Basic Biology -----	4	3	Professional Orientation -----	3	3
World Geography -----	3	3	Hygiene -----	3	3
Chemistry I -----	5	3	Chemistry of Nutrition -----	5	3
Athletics I -----	3	1	Athletics II -----	3	1
Gymnastics I -----	3	1	Gymnastics II -----	3	1
Aquatics I -----	3	1	Aquatics II -----	3	1
	<hr/>	<hr/>		<hr/>	<hr/>
	26	17		25	17
THIRD SEMESTER			FOURTH SEMESTER		
World Culture I -----	5	5	World Culture II -----	5	5
or General Literature I			or General Literature II		
(2-2)			(2-2)		
and History of Civiliza-			and History of Civilization		
tion I (3-3)			tion II (3-3)		
**Introduction to Art -----	3	2	**Introduction to Music -----	3	2
Descriptive Anatomy -----	3	3	General Psychology -----	3	3
Audio-Visual Education -----	3	2	Physiology I -----	3	3
Athletics III -----	3	1	Athletics IV -----	3	1
Gymnastics III -----	3	1	Gymnastics IV -----	3	1
Dancing I -----	3	1	Dancing II -----	3	1
	<hr/>	<hr/>		<hr/>	<hr/>
	23	15		23	16
FIFTH SEMESTER			SIXTH SEMESTER		
History of the United States			Educational Psychology and		
and Pennsylvania I -----	3	3	Evaluative Techniques -----	3	3
Leadership in Protective			American Government -----	3	3
Procedures -----	2	2	School Health Problems -----	3	3
Physiology II -----	3	3	Physical Activities for		
Physical Education Tests -----	3	3	Atypical Children I -----	2	2
Athletics V -----	3	1	Organization and Administra-		
Athletics VII -----	3	1	tion of Physical Education	3	3
Gymnastics V -----	3	1	Athletics VIII -----	3	1
Elective -----	3	3	Athletics VI -----	3	1
	<hr/>	<hr/>		<hr/>	<hr/>
	23	17		20	16

** All or any part of these courses may be scheduled as part of the unit in World Culture. If combined, the semester hours devoted to World Culture will be correspondingly increased.

SEVENTH SEMESTER			EIGHTH SEMESTER		
	Hours			Hours	
	Clock	Sem.		Clock	Sem.
Physical Activities for			Student Teaching and Direc-		
Atypical Children II -----	2	2	tion of Student Activities --	30	12
Mental Hygiene -----	3	3	Professional Practicum		
Principles of Recreation -----	2	2	including School Law -----	2	2
Sociology -----	3	3		—	—
Introduction to Philosophy --	3	3		32	14
Elective -----	3	3	Total Semester Hours		
	—	—	Required for Graduation -----	128	
	16	16			

RECREATION LEADERSHIP

For Health and Physical Education students who desire to prepare as recreation leaders, an elective area is provided.

	Hours	
	Clock	Semester
REQUIRED COURSES—17 semester hours		
*Aquatic Activities I -----	3	1
*Aquatic Activities II -----	3	1
*Athletic Activities V -----	3	1
*Athletic Activities VI -----	3	1
*Dancing I -----	3	1
*Dancing II -----	3	1
*Principles of Recreation -----	2	2
*Leadership in Protective Procedures -----	2	2
Organization and Administration of Recreation --	3	3
Supervised Recreation Leadership -----	6	4
	—	—
Total -----	31	17

ELECTIVE COURSES—8 semester hours

(to be chosen from two or more of the following fields):

Arts and Crafts in Recreation -----	3	3
Music in Recreation -----	3	3
Dramatics in Recreation -----	3	3
Camping and Outing -----	Varies	

* Health and Physical Education Major students receive credit for these courses since they are included in the required courses for the major field.

4. THE MUSIC EDUCATION CURRICULUM

Upon satisfactory completion of the requirements of this curriculum the student will be granted the degree of Bachelor of Science in Music Education and will qualify for a Pennsylvania Provisional College Certificate to be issued by the Department of Public Instruction, Harrisburg, Pa. The certificate will be valid for teaching and supervising music in the elementary and secondary schools of Pennsylvania.

(Sequence of courses subject to change for administrative reasons)

FIRST SEMESTER			SECOND SEMESTER		
	Hours			Hours	
	Clock	Sem.		Clock	Sem.
Communications I _____	5	5	Communications II _____	5	5
or English I (3-3)			or English II (3-3)		
and Speech I (2-2)			and Speech II (2-2)		
Basic Biology _____	4	3	Basic Physical Science		
World Geography _____	3	3	(Acoustics) _____	4	3
Health Education _____	2	2	Introduction to Art _____	3	2
Solfeggio I _____	3	2	Physical Education I		
*Applied Music _____	6	2	(Eurythmics I) _____	2	1
	—	—	Professional Orientation _____	3	3
	23	17	Solfeggio II _____	3	2
			*Applied Music _____	6	2
				—	—
				26	18
THIRD SEMESTER			FOURTH SEMESTER		
World Culture I _____	5	5	World Culture II _____	5	5
or General Literature I (2-2)			or General Literature II (2-2)		
and History of Civiliza-			and History of Civiliza-		
tion I (3-3)			tion II (3-3)		
Physical Education II			Physical Education III _____	2	1
(Eurythmics II) _____	2	1	Audio-Visual Education _____	3	2
Solfeggio III _____	3	2	Theory of Music II _____	5	4
Theory of Music I _____	5	4	Conducting II (Instrumental) _____	3	1
Conducting I (Choral) _____	3	1	*Applied Music _____	9	3
Survey of Music Literature _____	2	1		—	—
*Applied Music _____	9	3		27	16
	—	—			
	29	17			
FIFTH SEMESTER			SIXTH SEMESTER		
	Hours			Hours	
	Clock	Sem.		Clock	Sem.
History of the United States			Educational Psychology and		
and Pennsylvania I _____	3	3	Evaluative Techniques _____	3	3
General Psychology _____	3	3	Theory of Music IV _____	3	3
Theory of Music III _____	3	3	History of Music II _____	3	3
History of Music I _____	3	3	Methods II (Secondary) _____	3	2
Methods I (Elementary) _____	4	3	*Applied Music _____	9	3
*Applied Music _____	9	3		—	—
	—	—		21	14
	25	18			

SEVENTH SEMESTER

American Citizenship -----	6	6
Option 1. Home and Family Living (3-3) and American Government (3-3)		
Option 2. Introduction to Philosophy (3-3) and American Government (3-3)		
Methods III (Instrumental)---	3	2
Orchestration -----	3	2
*Applied Music -----	3	1
Music (elective) -----	3	3
(Counterpoint, Advanced Harmony, Composition, American Music, or Class Piano Methods)		
	<hr/>	<hr/>
	18	14

EIGHTH SEMESTER

Student Teaching and Direc- tion of Student Activities --	30	12
Professional Practicum including School Law -----	2	2
	<hr/>	<hr/>
	32	14
Total Semester Hours		
Required for Graduation -----	128	

5. DEGREE CURRICULUM FOR DENTAL HYGIENISTS

The degree of Bachelor of Science in Education will be conferred upon Dental Hygienists meeting the following requirements:

1. The possession of a valid license to practice dental hygiene in the Commonwealth of Pennsylvania issued by the State Dental Council and Examining Board and the Department of Public Instruction.

"The professional education requirement for dental hygiene is the satisfactory completion of an approved dental hygienist course of instruction of two years of not less than thirty-two weeks of not less than thirty hours each week or its equivalent in and graduation from a dental hygiene school approved by the State Council and Examining Board."*

2. The satisfactory completion in addition thereto of 64 semester hours of professional and general education courses distributed as follows:

	<i>Semester Hours</i>
A. EDUCATION -----	11
(1) Professional Orientation -----	3
(2) General Psychology -----	3
(3) Educational Psychology and Evaluative Techniques -----	3
(4) Audio-Visual Education -----	2
B. GENERAL EDUCATION -----	41
(1) Communications I or English I (3-3) and Speech I (2-2) -----	5
Communications II or English II (3-3) and Speech II (2-2) -----	5
(2) Fine Arts -----	4
a. Introduction to Art -----	2
b. Introduction to Music -----	2
(3) Geography -----	6
a. World Geography -----	3
b. Geography of the United States and Canada -----	3
(4) World Culture I or General Literature I (2-2) and History of Civilization I (3-3) -----	5
World Culture II or General Literature II (2-2) and History of Civilization II (3-3) -----	5
(5) Social Studies -----	11
a. American Government -----	3
b. Economics -----	3
c. History of the United States and Pennsylvania -----	3
d. Sociology -----	2
C. ELECTIVES -----	12
Total -----	64

* Bulletin 644, 1950; Rules and Regulations for Applicants for Admission to Examination for Licensure to Practice Dentistry and Dental Hygiene and Examination Procedures.

In each category above, credit will be given for equivalent courses pursued in the two year Dental Hygiene Curriculum. In such cases students must increase their electives by the number of semester hours so credited.

In the case of dental hygienists who had less than two years of specialized training on the basis of which they were licensed to practice dental hygiene, proportional credit will be given. Such persons must pursue additional general education courses in college to make up the deficiency.

Electives may be chosen with the approval of the Dean of Instruction from any field or curriculum offered at the college in which the student is enrolled.

SUMMARY OF COSTS PER YEAR

For Students Enrolled in the Degree Curriculum for Dental Hygienists

A. Boarding at the College

Contingent Fee.....	\$ 90.00
Activity Fee.....	25.00
Books (approximately).....	50.00
Room, board, laundry.....	432.00
	\$597.00

B. Day Students—Living at Home

Contingent Fee.....	\$ 90.00
Activity Fee.....	25.00
Books (approximately).....	50.00
	\$165.00

For costs during summer sessions, see page 134 or the Summer Sessions Bulletin.

6. DEGREE CURRICULUM FOR PUBLIC SCHOOL NURSES

The degree of Bachelor of Science in Education will be conferred upon registered nurses who meet the following requirements:

1. The satisfactory completion of a three year curriculum in an approved school of nursing and registration by the State Board of Examiners for the Registration of Nurses of Pennsylvania.
2. The satisfactory completion of forty-five (45) semester hours of additional preparation distributed as follows:

A. COURSES RELATED TO PUBLIC NURSING	<i>Semester Hours</i>
Public School Nursing	2
Public School Organization	2 ✓
Public Health Nursing	6 ✓
Nutrition and Community Health	2
Family Case Work	3 ✓
	—
TOTAL	15
 B. GENERAL AND PROFESSIONAL EDUCATION	
History of the United States and Pennsylvania	3
Communications	5
World Culture	5 ✓
American Government	3 ✓
Professional Orientation to Education	3 ✓
Educational Psychology and Evaluative Techniques	3 ✓
Audio-Visual Education	2
	—
TOTAL	24
 C. ELECTIVES	6
	—
GRAND TOTAL	45

In the case of nurses with less than three years preparation for registration, such persons will pursue additional courses to meet the requirements for the degree.

Electives may be chosen with the approval of the Dean of Instruction from any field or curriculum offered at the college.

SUMMARY OF COSTS PER YEAR**For Students Enrolled in the Degree Curriculum for
Public School Nurses****A. Boarding at the College**

Contingent Fee.....	\$ 90.00
Activity Fee.....	25.00
Books (approximately).....	50.00
Room, board, laundry.....	432.00
	<hr/>
	\$597.00

B. Day Students—Living at Home

Contingent Fee.....	\$ 90.00
Activity Fee.....	25.00
Books (approximately).....	50.00
	<hr/>
	\$165.00

For costs during summer sessions, see page 134 or the Summer Sessions Bulletin.

CERTIFICATION OF TEACHERS

School Laws of Pennsylvania, 1949, Section 1202. State Certificates.

State certificates shall be issued as herein provided. Each such certificate shall set forth the branches which its holder is entitled to teach. No teacher shall teach, in any public school, any branch which he has not been properly certificated to teach.

A certificate to teach shall not be granted or issued to any person not a citizen of the United States, except in the case of exchange teachers not permanently employed and teachers employed for the purpose of teaching foreign languages.

Provisional College Certificate

A student who satisfactorily completes one of the curricula offered by the College receives his degree from the College and qualifies for a Provisional College Certificate which is issued to him upon application to the Department of Public Instruction, Harrisburg, Pa.

In the Elementary field this certificate qualifies the holder to teach in the elementary schools of Pennsylvania for three years.

In the Secondary field this certificate qualifies the holder to teach the subjects written thereon in the secondary schools of Pennsylvania for three years.

In Health Education and Music Education the certificate qualifies the holder to teach and supervise the special subject in both elementary and secondary schools of Pennsylvania for three years.

Permanent College Certificate

The Permanent College Certificate requires three years of successful teaching in the public schools of the Commonwealth of Pennsylvania under the Provisional College Certificate and the satisfactory completion of six semester hours of additional work of collegiate grade, completed subsequent to the issuance of the baccalaureate degree. One-half of the additional work must be professional and the remainder related to the subject or subject fields on the certificate. This certificate is then a permanent license to teach in Pennsylvania.

Extension of College Certificates

1. A college certificate valid for the Secondary field may be extended to include the Elementary field by completing thirty semester hours of approved courses in the field of elementary educa-

tion, including six semester hours of elementary student teaching. At least one course in each of the following must be included: art, music, and health.

2. A college certificate valid for the Elementary field may be extended to include any subject of the Secondary field by meeting all the standards required for the original issue of a Secondary certificate.

A student who has qualified for an elementary certificate will have completed the required Professional Orientation, Educational Psychology, and certain academic credits. Additional work will be required to meet the following standards:

- a. Eighteen semester hours of approved academic work in the subject to be written on the certificate;
- b. Secondary Education—six semester hours;
- c. Student Teaching on the Secondary level—six semester hours.

3. A college certificate valid for the Secondary field may be extended to include additional academic subjects when the holder has completed eighteen semester hours of approved education in each subject to be added to the certificate.

Certification in Other States

Concerning the requirements for certification for teaching in other states, the Dean of Instruction should be consulted.

Teachers in Service

The following conditions apply only to those persons who have taught in Pennsylvania public schools prior to July 1, 1922. (No credit will be allowed toward the completion of the entrance requirements or the regular normal school course for teaching done after July 1, 1922).

The sixteen units of high school work required for entrance to the State Teachers College may be earned in approved high schools, summer schools, extension classes, correspondence study in institutions approved by the Department of Public Instruction in accordance with the following amendments:

After January 1, 1931, not more than the equivalent of three years of high school credit or fifty-four counts, may be earned by passing subjects in Pre-professional Examinations. This does not apply to persons who have been assigned some credit prior to January 1, 1931. This means that persons applying for credit for

the equivalent of a four-year high school course after January 1, 1931, must have credit for at least one year of approved work in an accredited school.

Entrance and college credits based on teaching experience have not been granted since September 1, 1927.

Credit for student teaching other than that done under the direction of the College will not be approved.

Credit toward entrance or toward graduation with a degree will not be allowed for experience in teaching.

DESCRIPTION OF COURSES BY DEPARTMENTS

Not all of the courses listed will be offered in any one semester or year. Whenever the demand warrants the giving of a course, an effort will be made to schedule it. In some cases, certain courses will be given one semester or year and others will be given the following semester or year, thus setting up a pattern of alternating courses.

ART DEPARTMENT

MR. HALLMAN, *Head of the Department*. Miss Lamborn, Mr. McKinney.

Introduction to Art

2 semester hours

This is a required course for all curricula. It deals with art as a vital part of contemporary living. Art of other ages will be given some consideration as a basis for interpreting the present.

Art for the Elementary Grades

2 semester hours

This course provides opportunity for the student to develop his powers of self-expression; to have experience in the use of the fundamental elements and principles of art structure as they relate to two-dimensional expression, e.g., in the use of chalk, crayon, paint, etc.; to discover the relationship between his creative experiences and the art program for the elementary school; to provide a basis for an understanding and evaluation of children's work.

Teaching of Art in the Elementary Grades

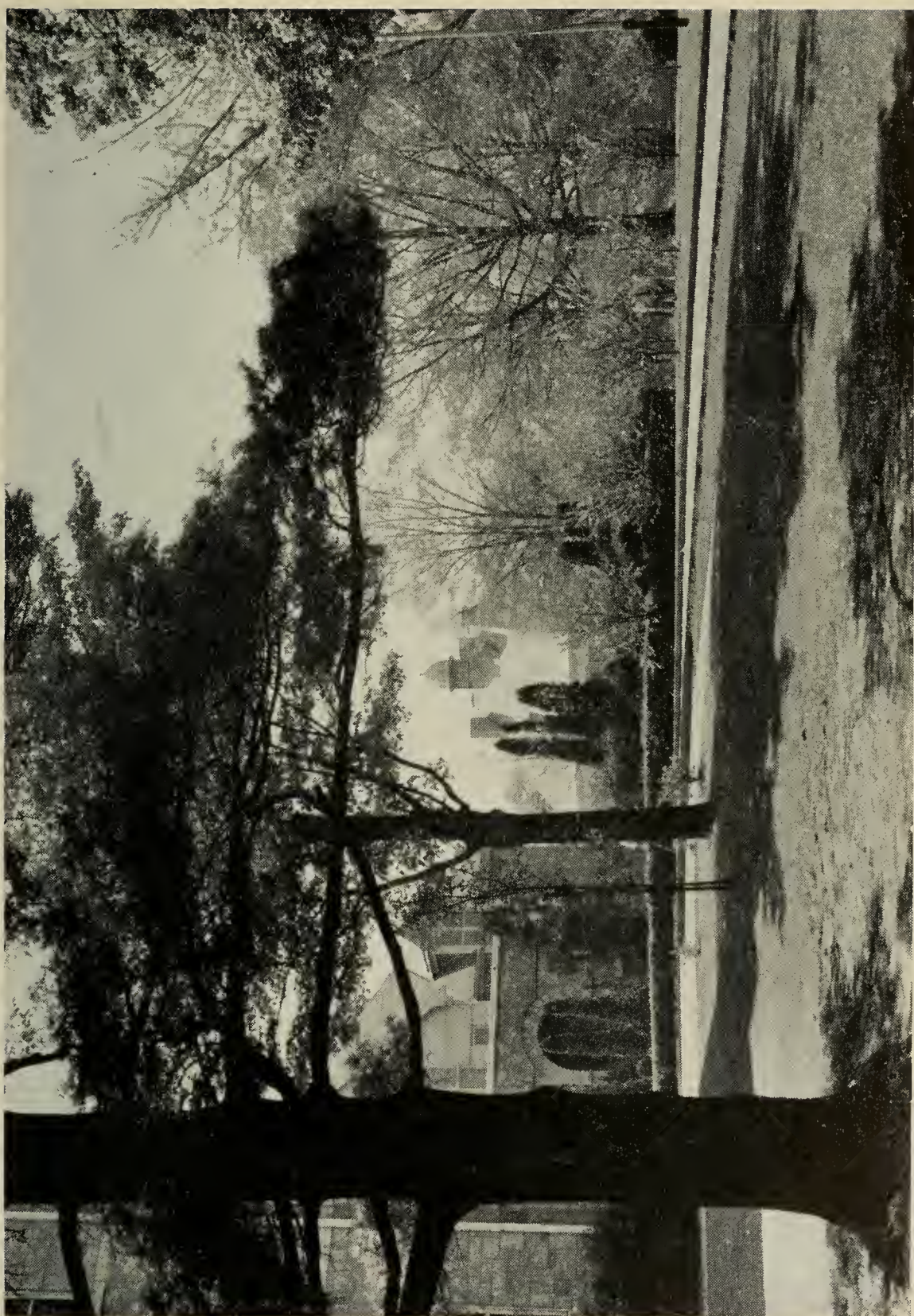
3 semester hours

A continuation of Art for the Elementary Grades. It provides art experiences involving the use of a variety of manipulative materials and activities concerned with structural and decorative design. Included are the designing and creation of objects using materials such as clay, paper, wood, cardboard, etc., into functional attractive articles. Here, also, emphasis is put on understanding the art program of the elementary school.

Problems in Elementary School Art

3 semester hours

This advanced course is designed to develop a basic understanding of the implications of art as an integral part of general education, and to provide opportunity to develop a complete program of art in a school situation. It is intended to aid the elementary teacher to provide better instruction in art with or without the aid of a supervisor of art. Prerequisites: Art for the Elementary Grades and Teaching of Art in the Elementary Grades.



CAMPUS VIEW

Arts and Crafts*3 semester hours*

This course is intended to provide opportunity for creative activity in the arts and crafts. Special emphasis is given to camp, playground, or recreational needs.

Creative Art*3 semester hours*

The aim of this elective course is to develop expression in drawing, painting, or other art activity. The activities are arranged with regard to the individual interests of the student. No prerequisites.

Creative Design*3 semester hours*

This is an elective course planned to develop judgment and creative power in problems of abstract and decorative design. No prerequisites.

EDUCATION DEPARTMENT

DR. CRESSMAN, Head of the Department

Miss Baldwin, Dr. Sykes, Dr. Denworth, Mr. Davison, Dr. Bonder, Dr. Ross, Dr. Evans, Mr. Benda, Mr. Patterson, Mr. Childers, Dr. Woodlen, Mr. Godlove.

Professional Orientation*3 semester hours*

An orientation and guidance course acquainting prospective teachers with the opportunities and requirements of the profession; the relationship of the school to society; the organization and administration of the American school system. Extensive directed observation of various schools and learning situations will be required.

Audio-Visual Education*2 semester hours*

Consideration of the need for sensory techniques and materials in the learning process with attention given to the psychological principles involved. Acquaintance with and achievement of skills in specific techniques, materials, and equipment within his teaching field. Activities will include actual production of material for classroom use and participation in their use.

Introduction to Philosophy*3 semester hours*

An introduction to philosophy with emphasis upon current and pertinent problems. An historical survey of the contributions of outstanding ancient and modern philosophies. Especial attention is given to ethical implications.

**Problems of Secondary Education
Including Guidance***3 semester hours*

Consideration of the practical problems of secondary teaching and organization. Survey of the basic structure and nature of American secondary education emphasizing guidance principles. Prerequisite: Professional Orientation.

General Safety Education*2 semester hours*

The development of habits and attitudes that will make for safe living by both teachers and students; acquaintance with rules, regulations, and laws concerning the operation of motor vehicles; rules and regulations of pedestrian travel; other hazards to which we are commonly subjected such as fire, electricity, etc., especially in the home and school.

Ethics*3 semester hours*

The course in ethics is concerned with the development of principles of right conduct and practical systems of social morality. It has to do with the human values and the development of moral standards both for the individual and society. Basically it seeks answers to such moral problems as the following: What conduct shall we choose and from what shall we refrain? What shall we fight for and what against? The methods used will involve lectures, discussions, readings, and reports.

Marriage and the Family*1 semester hour*

A highly personalized course in preparation for marriage, based upon the needs and desires of the students enrolled. Courtship and the problems involved in choosing a mate, marriage predictive tests and their use, anatomical, physiological, and medical aspects of marriage, emotional attitudes and adjustments involved, family economics, and the legal aspects of marriage.

**Student Teaching and Direction
of Student Activities***12 semester hours*

Observation and participation in all teaching and activities related to the performance of a teacher's work, in the area of the student's specialization.

**Professional Practicum Including
School Law***2 semester hours*

Methods and practices of teaching; general techniques of teach-

ing and techniques for the students' special field; Pennsylvania school laws relevant to the work of the classroom teacher; problems encountered by the students in their student teaching.

Elementary Education

Child Adjustment

3 semester hours

Application of the principles of mental hygiene to the problems of elementary school children in home, schools, and community; study of special agencies concerned with child welfare: clinics, social agencies, juvenile courts, etc.

Child Development

3 semester hours

Acquisition of understanding and appreciation of the patterns of physical, mental, social, and emotional growth in the period of early childhood. Consideration of local, state, and national agencies concerned with the welfare and education of early childhood. Observation of learning situations in the family, school, and community environments.

Creative Activities in the Elementary School

3 semester hours

Consideration of the guidance of children in creative learning and expression. Emphasis upon the child's needs to discover creative interests and upon the development of skills and refinements of taste needed for rich experience in art, music, and literature.

Diagnostic and Remedial Reading

3 semester hours

Acquaintance with recent research in the field of reading to acquaint students with problems and needs common to incompetent readers and with the most successful materials and techniques for dealing with such problems. Demonstration and practice in testing, planning, and directing remedial programs with groups and individuals. Prerequisite: Teaching of Reading.

Language Arts in the Elementary Grades

9 semester hours

Preparation of teachers for the development of the child's abilities in oral and written communication. Provides knowledge of the nature of reading processes and materials of instruction. Essential techniques and materials of language, including handwriting and spelling, to teach the child knowledge and skills in the fundamentals of oral and written communications are considered. Children's Literature is explored to acquaint the prospective teacher with appropriate materials.

Pre-School Education*3 semester hours*

Study of pre-school and kindergarten children, of nursery school and kindergarten programs, materials, equipment and procedures, records and reports. Laboratory school experiences supplement reading and discussion of acceptable standards and teaching practices. Prerequisite: Child Development.

School and Community*3 semester hours*

Study of group and intergroup activities and the role of the individual in the group; of community interests, needs, resources and problems; of teacher responsibility in community activities: professional, social, civic, religious, and political. Student participation in community activities is stressed.

Social Living in the Elementary Grades*9 semester hours*

The techniques of the teaching of children to achieve basic concepts and skills in mathematics, science, geography, economics, sociology, and history and the survey of instructional materials and the curriculum in these areas. Ways of developing meaningful experiences in each area and ways of organizing content into social living units will be stressed.

Teaching of Arithmetic*3 semester hours*

The various processes and operations needed in the arithmetic of the elementary school are carefully analyzed so that the students may see just what must be taught and what problems and difficulties are likely to be encountered as this work is presented; suggestions for meeting these problems and for preventing or correcting common arithmetical deficiencies.

Teaching of Elementary Science*3 semester hours*

Methods of presenting science in each grade of the elementary school and with the important scientific facts and principles that should be taught in each grade. Stressed are field work, collection of materials, special techniques and demonstrations to adapt elementary science to local conditions. Elementary science syllabi of several states and cities are studied. Evaluations of elementary science texts and pamphlets now available for each grade.

Teaching of Language*3 semester hours*

Survey of the content of the curriculum in English in the elementary grade; methods of teaching oral and written composition,

principles of grammar, poetry, and literature. The teaching of handwriting is part of this course.

Teaching of Reading*3 semester hours*

Scientific aspects of reading and problems in the teaching of reading in all elementary grades. Presentation in theory and practice, from careful examination of research and from observation. Opportunity for the student to acquaint himself with a variety of modern reading materials and with approved techniques in their use. Problems of disability and their treatment.

**The Teaching of Social Studies
and Geography***3 semester hours*

This course is designed to acquaint students with up-to-date methods of teaching social studies and geography as an integrated program in the new elementary curriculum. It is a survey of methods and techniques, stressing the profitable use of community affairs and resources, and the development of good civic attitudes in social living. It considers techniques in the use of maps, specimens, pictures, and other tools of learning which are of special value in social studies and geography. The course gives actual experience in the analysis of current events, the organization of projects and field trips, and the development of units of work with respect to the various grade levels in the elementary school.

Teaching the Exceptional Child*3 semester hours*

The study of atypical children who need help in order to adjust and succeed to the extent of their capacity. Students are guided in recognizing, understanding, and dealing with the additional needs of the superior child and the mentally, physically, or emotionally handicapped child. The selection, construction, and adaptation of learning aids and materials.

Psychology**General Psychology***3 semester hours*

A comprehensive study of the origins, motives, and modifications of human behavior with emphasis on the scientific approval in analyzing behavior patterns; the importance of man's biological inheritance, and the significance of social environment in influencing human living. Attention is given to the simpler techniques in psychology experimentation.

**Educational Psychology and
Evaluative Techniques***3 semester hours*

The nature of the learning process with emphasis on the application of the principles of psychology to the problems of learning and teaching. An important aspect of the course is the study of actual classroom problems and procedures by observation of regular work and by special illustrative demonstrations in the laboratory school. Prerequisite: General Psychology.

Child Psychology*3 semester hours*

This course is concerned with the study of the development of the child from birth to the adolescent years. The physical, environmental, and psychological factors that condition the child's development are considered and the factors leading to abnormal development and behavior problems, as well as factors contributing to the normal development of the child, are given special attention. Prerequisite: General Psychology.

Mental Hygiene*3 semester hours*

This course attempts to analyze the individual from several standpoints according to the principles of mental hygiene. The practical phase of the course is application of these principles to the individual problems of adjustments to the school and society. Prerequisite: General Psychology.

ENGLISH DEPARTMENT

DR. SLAGLE, *Head of the Department*

Miss Tyson, Miss Geyer, Miss Clark, Miss Ramsey, Miss Barrer, Mr. Thomas,
Dr. Berry, Mr. Clokey, Dr. Binney, Mr. Newcomer

Communications I*5 semester hours*

The study of communications provides both vicarious and direct development of abilities for personal expression. It includes extensive practice in reading, speaking, and writing in language and form appropriate to social and professional situations, and instruction in the use of formal and informal discussion techniques. Library usage, taught by a member of the library staff, orients the student to the resources and use of the college library.

Communications II*5 semester hours*

The second semester's work in communications includes the refinement and extension of skills and techniques of Communica-

tions I, with special emphasis on the basic reading, speaking, and writing skills appropriate to the various fields of learning. Practice in parliamentary procedures for adult participation in American democracy is included. Prerequisite: Communications I.

World Culture I and II

10 semester hours

This integrated survey course presents the origin, development, and influence of the governmental and social organization, economic activity, religious belief and practice, literature, and fine arts as they have contributed to our modern civilization. It deals with broad, sweeping movements rather than details of the individual state or nation. Four semester hours will be allowed for World Culture I and II toward certification in English.

Recent Trends in the Teaching of English

3 semester hours

The content of language-arts requirements of the secondary school is reviewed, with special reference to grade-placement with adaptation of materials, appraisal of results, and the development of programs of study.

English Composition

English I

3 semester hours

Review of grammar in detail, analysis of construction, functional practice, remedial drill in punctuation, spelling, and mechanics of English; vocabulary study. Writing of brief compositions and analysis for structural faults and error in diction. Library Usage, separate unit additional to English I, is introduction to use of the library taught by a member of the college library staff.

English II

3 semester hours

Study and application of the laws of composition; methods and types of exposition; description and narration; paragraph and theme writing; analysis of literary samples; book reviewing; outlining; assembling bibliography. Continued functional practice in mechanics. Prerequisites: English I.

Advanced Composition

3 semester hours

Advanced experience in writing is afforded through the preparation of reviews, digests, and critical reports, employing expository, descriptive, and argumentative techniques.

English Philology and Grammar*3 semester hours*

The course introduces students to the historical study of the development of modern English and the discernible trends in language today through the use of the exercises in phonetics, etymology, and dictionary usage.

Journalism*3 semester hours*

The organization, management, and supervision of the content of school publications, the preparation of school publicity materials, and the development of journalistic style are acquired through practical participation in journalistic activities.

Creative Writing*3 semester hours*

This is an advanced course for students of marked ability in the creative processes of writing. The course aims to develop creative ability, to improve the student's own style, and to furnish methods and materials for the teaching of composition in the secondary schools.

Literature**General Literature I and II***4 semester hours*

As an introduction to literature, this course is designed to provide opportunities for both wide and extensive reading that will familiarize students with the development of human thought as it has found expression in the recognized literary masterpieces.

English Literature*3 semester hours*

English Literature is surveyed from Anglo-Saxon times to the present, with emphasis on recognized masterpieces. The course has two basic aims: (1) broader knowledge of the growth of English Literature and its relation to historical movements, and (2) wide reading for more intelligent appreciation.

American Literature*3 semester hours*

The course is a survey of representative American writings from Colonial times to the present. Particular attention is given those writings which best exemplify democratic ideals and national character.

American Poetry*3 semester hours*

The nature, form, and function of verse as exemplified by representative American poets are examined, with particular reference to social backgrounds and national ideals.

American Prose*3 semester hours*

A study of the development of national ideals as expressed by representative prose masterpieces, with extensive critical reading in current periodical as well as intensive study of great works of the past.

Children's Literature*3 semester hours*

An introduction to important children's books, old and new, and to techniques for the presentation of book material. This course encourages wide reading of juvenile literature and provides criteria for and experience in the evaluation of children's books.

Pre-Shakespearean Literature*3 semester hours*

A study of the cultural background of the English-speaking race, its folk-ways, legends, balladry, and history, particularly, as reflected in *Beowulf*, the Arthurian cycle, Chaucer and Spenser.

Shakespeare*3 semester hours*

The work of this course is a study of selected comedies, tragedies, and histories by Shakespeare, together with the social, historical, and literary background necessary for their full appreciation. Particular reference is made to those plays most frequently included in secondary school curriculums.

Eighteenth Century Literature*3 semester hours*

A critical consideration of significant eighteenth-century writers with emphasis upon the struggle between tradition and revolt as reflected in the works of the representative writers of the period.

The Romantic Movement*3 semester hours*

Wordsworth, Coleridge, Byron, Shelley, Keats and their contemporaries are studied in the light of social background and biographical and critical doctrine.

Victorian Literature*3 semester hours*

Victorian culture as the reflection of conflict and compromise is studied through its interpretations by poets and essayists of the

period with particular reference to the writing of Ruskin, Newman, Mill, Huxley, Arnold, Tennyson and Browning.

Criticism*3 semester hours*

An historical study of literary criticism and aesthetic theory, with emphasis upon romanticism and classicism of critical canon.

Modern Drama*3 semester hours*

A comprehensive view of the best dramatic literature of modern European, American, and British theatre since 1890 is presented through lectures, discussions, and experiences related to the contemporary stage.

Play Production*3 semester hours*

This is a fundamental course in the theory and practice of acting and directing experiences which are designed to stimulate the cultural and social development of the student and to aid the prospective teacher who will be called upon to produce plays. It contains text material in technique, reading and discussion of examples of dramatic literature, and laboratory practice in life study, pantomime, interpretation of lines, and the production of one-act plays.

The Novel to 1870*3 semester hours*

A study of the rise and development of the novel in English from its predecessors of the eighteenth century to Hardy and Mark Twain. A selected list of novels is assigned for analysis with a view to cultivating an appreciation of this dominant literary form.

Contemporary Novel*3 semester hours*

A study of modern and contemporary movements in fiction, based on the critical reading and analysis of English and American novels published since 1870.

Essay*3 semester hours*

The history and development of the essay as a distinctive literary form, together with readings in current periodical non-fiction and provision for opportunities for self-expression through writing.

Contemporary Poetry*3 semester hours*

An examination of representative poetry published since 1870 in both England and America provides the basis for a study of forms, aspects and tendencies in contemporary verse, with particular reference to poetry as a criticism of modern life.

Short Story*3 semester hours*

The development of the short story as a distinct and popular current literary form is traced through its history and technique. Recent tendencies are investigated and wide reading in current periodicals is encouraged.

Literature of Biography*3 semester hours*

A study of the historical development of biographical writing with readings from Plutarch, Boswell, Carlyle, Macaulay, Strachey, Bradford, Ludwig, and standard and contemporary biographers.

Dramatics in the Elementary Grades*3 semester hours*

This course deals with the techniques of dramatic-play, dramatization, and play production. It includes discussion of the educational principles underlying the choice of the form to be used with children in the kindergarten and elementary grades.

Speech**Speech I***2 semester hours*

Study and application of fundamental principles of effective speaking; training in selection, organization, and development of material suitable for speeches; recording and analysis of voice; emphasis on personality adjustment as related to speaking-listening situations; diacritical marking and vocabulary building.

Speech II*2 semester hours*

A continuation of Speech I with special emphasis on group discussion and parliamentary procedure; expository, narrative, and descriptive material; speeches for special occasions; and interpretative or choral reading.

Speech Problems*3 semester hours*

This course introduces students to the various speech problems common to children in the elementary school. Emphasis is placed upon remedial techniques. The study of materials, methods, and techniques used by the classroom teacher in improving the speech of all children.

Choral Speaking*3 semester hours*

Choral Speaking aims, through the communal voicing of poetry, to stimulate appreciation, interpretation, and artistic expression of poetry; to demonstrate the educational and social value of unison speech; and to train choral leaders in the techniques of choir conducting and in the selection and treatment of materials.

FOREIGN LANGUAGE DEPARTMENT

DR. STALEY, *Head of the Department*

French

French I and II—For Beginners—not offered. Two units of secondary school French satisfy this requirement.

French III and IV*6 semester hours*

Emphasis on independent reading. Further development of skill in aural comprehension and speaking. Activities and materials focus on our acquaintance with the language area—its history, arts, literature, and customs—which will be applied to the formation of attitudes and judgments related to current living. Prerequisite: Minimum of two years of French in secondary school. (Note: French III is not a required prerequisite to French IV).

French V and VI—Survey of Literature*6 semester hours*

Selected readings from authors whose works throw light upon current problems of social living. Form and oral expression are taught in the framework of the literature read. Prerequisites: French III and IV.

**French VII—Advanced Language
and Techniques***3 semester hours*

Emphasis is placed not only on the ability to speak and write the foreign language, but on the techniques necessary for the foreign language teacher. Prerequisites: French V and VI.

French VIII—French Classical Drama*3 semester hours*

The masterpieces of Corneille, Moline, and Racine are read after a consideration of the early history of the drama. Prerequisites: French V and VI.

**French IX—French Literature of
the 19th Century***3 semester hours*

This includes the development of both the romantic and naturalistic schools. Prerequisites: French V and VI.

**French X—Development of the
French Novel***3 semester hours*

Representative novels from 18th, 19th, and 20th centuries are read and discussed in the native language. Prerequisites: French V and VI.

Latin

To specialize in Latin, students must present not less than two years of secondary school Latin and demonstrate competence to specialize in this field.

Latin I—Ovid and Virgil*3 semester hours*

This course combines the study of Ovid with a review of mythology; it includes also a study of the meter of Ovid and Virgil and attempts to clarify the problem of Latin pronunciation. The unit in structure is planned to review forms and syntax and to afford an opportunity for the discussion of the methods of presenting the essentials of Latin grammar to high school students.

Latin II—Livy*3 semester hours*

A short review of Roman military tactics as seen in the Punic and Gallic wars; this course presents also various methods of teaching vocabularies.

Latin III—Cicero and Tacitus*3 semester hours*

Based upon Cicero's "DeAmicitia" and "DeSenectute" and selections from Tacitus, this course entails a presentation of Roman philosophical systems, Roman religious customs, and Roman training for public life. The type of assignment varies from day to day in order that the course may offer definite ideas for the handling of reading material in high schools.

Latin IV—Horace*3 semester hours*

This course emphasizes the influence of Horace upon world literature and includes an analysis of Sapphic and Alcaic verse forms. The readings form the point of departure for a thorough study of Roman private life and social customs.

Latin V—Plautus and Terence*3 semester hours*

In connection with this introduction to Latin drama, the course includes a special study of Roman amusement, holidays, and dress. Once a week an hour is devoted to the discussion of current magazine articles on modern methods of teaching Latin and to special reports from student teachers.

Latin VI—Roman Civilization*3 semester hours*

This is a survey course concerning the development of Latin literature from its origin, but places emphasis only on those authors not previously read: Lucretius, Catullus, Martial, Tacitus, Juvenal, Pliny. The unit in methods consists of a discussion of text books for high schools and the preparation of biographical material on the teaching of Latin.

GEOGRAPHY DEPARTMENT

MR. KEINARD, *Head of the Department*; Dr. Mewha, Mr. Hawthorne, Dr. Lemley.

World Geography*3 semester hours*

The purpose of this course is to develop a knowledge and appreciation of patterns of the natural environment throughout the world such as patterns of climate, soil, vegetation, and man's adjustment to them, with special emphasis upon man's economic and cultural responses.

Climatology*3 semester hours*

This course is primarily concerned with the climatic regions of the earth, and the limitations and advantages they offer for man's occupation. The course is a valuable aid to students in world problems. Prerequisite: World Geography.

Geology*3 semester hours*

This course deals with landscapes in their relation to the structure of the earth's crust, and the work of earth forces and their effects on materials, structure, and physiography of the earth's surface features. Course work includes field work, study of rocks, minerals, and topographic maps.

Meteorology*3 semester hours*

Meteorology is a study of the atmosphere. This course analyzes the laws and underlying principles of atmospheric changes. An

opportunity is given for students to become familiar with common weather instruments, to read and interpret weather maps, to observe and record weather data, and discuss problems rising from the use of the atmosphere as a medium of travel and transportation. Prerequisite: World Geography.

Physiography*3 semester hours*

The study of various land forms, soils, and minerals, their origin, their changes, and their relation to man. Prerequisite: World Geography.

Cartography*3 semester hours*

This course is designed primarily to enable the geography major to attain proficiency in the use and interpretation of maps, models, globes, cartograms, and geographic diagrams. The selected map projections will be approached from the geographical rather than the mathematical point of view. The history of maps, the development of signs, symbols, and map scales, the construction of projections, graphs, and diagrams, and the application of each of these to the teaching of geography will be stressed. Prerequisite: World Geography.

Economic Geography*3 semester hours*

Develops an understanding of world patterns of producing and consuming regions, population distribution, and world trade routes and the related natural factors. It also deals with the application of this information on securing a fundamental understanding of national and international problems.

Commercial Air Transportation*3 semester hours*

This course studies development of commercial aviation. Policies such as governmental agreements, subsidies, control and use of air bases, the importance of Polar regions, and the Great Circle air routes are considered. Prerequisite: World Geography.

Conservation of Natural Resources*3 semester hours*

This course deals with the present problems in the conservation of our national resources of land, water, plant, animal life, and mineral deposits, ways of solving these problems, and the wise use of these resources.

**Geographic Influences in
American History***3 semester hours*

A study of the relationship of the natural geographic factors in the settlement, development, and progress of various countries—with the major emphasis placed upon the United States. Prerequisites: World Geography and Geography of United States.

Trade and Transportation*3 semester hours*

A study of transportation routes, ports, railroad centers, hinterlands, and trade relations between production areas and countries.

**Geography of the United States
and Pennsylvania***3 semester hours*

A comprehensive treatment of the adjustment of the people of Pennsylvania and the United States to the physical factors—structure, relief, climate, vegetation, soils, and natural resources—which help to explain the distribution of population, land use, products, and trade within the United States and with other parts of the world. Prerequisite: World Geography.

Geography of Pennsylvania*3 semester hours*

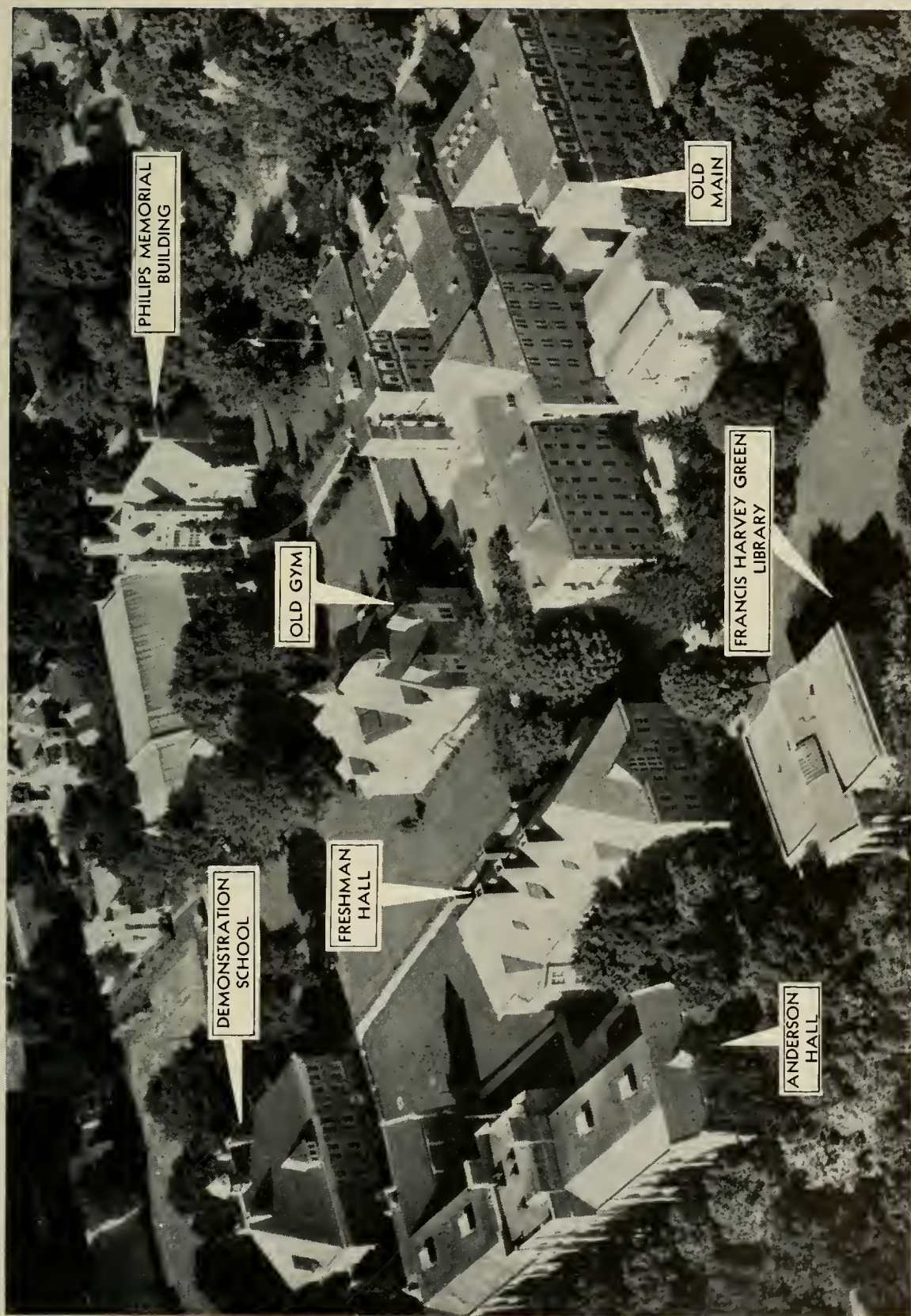
A regional study of Pennsylvania, emphasizing man's cultural and economic responses to environmental factors. Special attention is given to the resources of the state, analyzing their extent, their use, and need for their conservation, and the regional planning program for the Commonwealth.

Geography of Asia*3 semester hours*

This course comprises a study of the major geographic regions of the Soviet Union, Southwestern Asia, and India. Special emphasis is placed on the natural resources and their use, the peoples—their number and distribution, their cultural and recent cultural changes, strategic areas, and related political problems.

Geography of Africa and Australia*3 semester hours*

This is a regional study of Africa, Australia, and the neighboring islands showing the economic and social development of the regions of these lands and their relationship to the physical environment and the political affiliations of these lands with other countries. The geographic aspects of the problems of colonies, land tenure, race, future land use, and the strategic importance of Africa are considered. Prerequisite: World Geography.



AIR VIEW OF MAIN CAMPUS

Geography of Europe*3 semester hours*

The aim of this regional course is to help acquire an ability to look for, find, and apply the geographic relationships underlying land uses, dominant international problems and boundary disputes, thus enabling students to obtain an unbiased understanding of the economic problems of Europe. The Soviet Union is not included in this course. Prerequisite: World Geography.

Geography of the Far East*3 semester hours*

A study of Japan, China, the Philippines, Southeastern Asia, and the East Indies and an intensive investigation of the natural factors and man's adjustment to them in the geographic, economic, and political regions of Eastern Asia. The geographic background needed in planning solutions for raising standards of living, for the wise use and restoration of natural resources, and the industrialization of countries is presented. Prerequisite: World Geography.

Geography of Latin America*3 semester hours*

A regional study is made of Middle and South America. Special emphasis is given to regional differences and similarities. Latin American relations with other nations, especially with the United States, are stressed. Prerequisite: World Geography.

Geography of United States and Canada*3 semester hours*

A regional study of the United States and Canada relative to man's adjustments to his environment as determined by the physical factors of climate, vegetation, relief, and soils. Recognition of the political adjustments to the geographic environment and the inter-relations between the two countries and the rest of the world. Prerequisite: World Geography.

World Problems in Geography*3 semester hours*

This course considers some of the world problems which need a geographic background for understanding and solving them. Attention is given to boundary questions, the value and control of colonies, fishery agreements, problems concerning commercial aviation, world trade, the feeding of the world, control and development of natural resources, the making of the peace, and similar topics. Prerequisite: World Geography.

Field Courses in Geography (as approved)*3 semester hours*

These courses, which involve the study of selected areas through the agency of travel and actual investigation, are arranged from

time to time to suit the needs of the student groups. Prerequisites: World Geography.

Teaching of Geography in Secondary Schools

3 semester hours

This is an intensive study of the modern techniques of teaching geography, geography materials, and current curricula in geography. Emphasis is placed upon the contribution of geography to the solving of national and world problems; the skills, habits, and attitudes to be gained from geography courses in the junior and senior high schools which aid in the development of world citizenship, the courses suitable for such groups, and the new books available at this level.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

DR. STURZEBECKER, *Head of the Department*

Mr. Waters, Miss Wade, Miss Schaub, Miss Leach, Mr. Messikomer, Miss Yanisch,

* Mr. Davis, Miss Landis, Mr. Twardowski, Mr. Reese, Miss Margerum,

Mr. Cardner, Mrs. Newcomer

Physical Activity Courses

Athletics I—IV

4 semester hours

These four courses are foundations for instruction and practice in the organized sports program as found in the secondary schools. Elements of play, rules, and officiating techniques are introduced along with safety procedures. Each student will build an accumulative reference file on all activities.

- MEN: I Football and Basketball
II Basketball and Track
III Soccer, Lacrosse, and Boxing
IV Wrestling and Baseball

- WOMEN: I Hockey and Volleyball
II Basketball and Softball
III Hockey, Badminton, and Archery
IV Basketball, Track and Field, and Lacrosse

Athletics V and VI

2 semester hours

Emphasis is placed upon carry-over sports and recreational lead-up activities principally of an individual nature. Skills are acquired in a variety of dual athletics so that the student has a

* Second semester.

sound basis for instructing these activities in either a required physical education program or in a recreational program for all age levels.

MEN: Golf, tennis, archery, badminton, softball, shuffleboard, volleyball, table tennis, bowling, riflery, fencing, and winter sports.

WOMEN: Badminton, bowling, shuffleboard, archery, table tennis, winter sports, officiating hockey, basketball, softball, fencing, and volleyball.

— Athletics VII

1 semester hour

A review of methods of teaching in the gymnasium, classroom, playground, and athletic field will provide the student with basic techniques to carry out the various lesson and unit plans for different grade levels. This grounding in the techniques of teaching is a prerequisite of the student teaching semester.

— Athletics VIII

1 semester hour

The planning and direction of demonstrations and exhibitions in the physical and health education field will form the basis of the course. Students will plan elementary demonstration, exhibitions, circuses, festivals, water shows, variety shows, field days, May days, holiday programs, sports carnivals, and pageants. Certain ones will be presented as class projects.

Gymnastics I and II

2 semester hours

This is an introductory course in the fundamentals of gymnastics, marching tactics, apparatus, and games of low organization.

MEN: Speedball, games, relays, pyramids, trampoline, use of heavy apparatus, stunts, and safety measures.

WOMEN: Soccer, speedball, games, relays, stunts, tumbling, apparatus, pyramids, tennis, and safety measures.

Gymnastics III and IV

2 semester hours

MEN: Instruction in progressively complex games and relays is accompanied by elementary practice teaching through the use of small units learned in the first year. The teaching of calisthenics emphasizing Danish gymnastics, combative games, advanced heavy apparatus, and the use of light apparatus is also included.

WOMEN: The first course is devoted to clog and tap dancing techniques, rhythmic approach, movement, and analysis. During the second semester methods of teaching calisthenics with particular emphasis on Danish gymnastics is offered. Attention is given to light apparatus, pyramid building, and advanced heavy apparatus. The student is given opportunities to do elementary practice teaching of the skills learned.

Gymnastics V

1 semester hour

This semester all students are expected to develop a practical reference list of games and activities suitable for both elementary and secondary schools. A project in each of these areas will be developed. Natural activities as used in school programs, in classroom situations, playgrounds, and sidewalk areas offer opportunities for the presentation of practice lessons by each student. This course and Athletics VII are prerequisite to the student teaching semester.

Dancing I

1 semester hour

MEN: A study of the place of dancing and rhythmical activities in the school physical education program with particular emphasis on clog, tap, and elementary folk dancing.

WOMEN: A study of different dance types with emphasis on modern dance; fundamentals of rhythm and movement and their common elements in relation to each other; the teaching of rhythms to children based upon varied approaches at the different age levels.

Dancing II

1 semester hour

MEN AND WOMEN: Co-recreational activities will be emphasized. The activities will include square and country dancing, folk dancing, and social dancing. Students will not only develop personal skills, but will also learn methods of teaching and curriculum sources of dancing programs.

Aquatics I

1 semester hour

MEN: Diagnosis, study, and practice of the basic swimming strokes; introduction to fancy diving and competitive swimming; study of speed swimming strokes, racing starts, turns, and relay races; floating and endurance swimming; aquatic games, races, stunts, and exhibitions; introduction to recreational aquatics and synchronized swimming formation.

WOMEN: Instruction in the nine basic styles of swimming and elementary diving; methods of teaching the various classifications of swimmers; pool maintenance and sanitation; aquatic activities such as water games, aquatic ballet, synchronized swimming, and officiating techniques.

Aquatics II*1 semester hour*

MEN: The philosophy of life saving and the responsibility of guarding the lives of bathers and swimmers; diagnosis, study, and practice of life saving skills and techniques; discussion of floating supports, canoeing, boating, and use of the paddle board. Successful completion of this course will enable the student to receive senior life saving certification by the American National Red Cross.

WOMEN: Continued instruction and perfection of the nine basic styles of swimming and advanced diving; experience in teaching elementary swimming strokes; senior life saving instruction. Successful completion of this course will enable the student to receive senior life saving certification by the American National Red Cross.

Health Education Courses**Hygiene***3 semester hours*

Preparation of the student for making intelligent adjustments to personal and community health problems; activities and contributions of volunteer and public health agencies in the development and maintenance of acceptable health standards. Students will build a curriculum material instructional aids list in Health Education which will be a prerequisite for the course in School Health Problems.

Descriptive Anatomy*3 semester hours*

A study of the human body with particular emphasis upon the skeletal and muscular systems as related to a scientifically sound and practical program of physical education. Prerequisite: Basic Biology.

Physiology I*3 semester hours*

Consideration of the specific functions of the various organic systems which compose the human body and the relationships of the various systems to each other in forming an integrated organism. Prerequisite: Descriptive Anatomy.

— Physiology II*3 semester hours*

The scientific evaluation of the effects of muscular activity upon the various organs and systems of the body and upon the human mechanism as a whole. Applications are made to specific problems of the health and physical education field. Prerequisite: Physiology I.

Leadership in Protective Procedures*2 semester hours*

The responsibilities and duties of the teacher and coach in the development and dissemination of safety education as related to physical activities in school and community. Emphasis is placed on the prevention and care of athletic injuries, first aid, and law enforcement procedures. Prerequisite: Descriptive Anatomy.

Physical Education Tests*3 semester hours*

Experience in selecting, administering, scoring, and evaluating physical activity tests of physical fitness, general motor ability, motor educability, and skill and knowledge in sports. Competency in the use of elementary statistical procedures of objective learning and testing. Prerequisite: Educational Psychology.

— School Health Problems*3 semester hours*

Problems related to health service and healthful environment in elementary and secondary schools; experience in building and teaching units of instruction in health for boys and girls. Students will have completed their curriculum materials instructional aids list as a prerequisite for student teaching in the senior year (see Hygiene). Prerequisites: Hygiene, Physiology I, and Educational Psychology.

Physical Activities for Atypical**Children I and II***4 semester hours*

Basic courses in the analysis of muscular movement in physical activity; preparation of physical education teachers to understand the problems of physically handicapped children in schools and the modification of activity to meet their needs. Prerequisites: Descriptive Anatomy and Physiology I.

**Organization and Administration
of Physical Education***3 semester hours*

Principles of program building in physical education and athletics, curricular and extra-curricular; facilities and equipment, routine procedures, budget and finance, legal liability, and public relations. Prerequisite: Physical Education Tests.

Principles of Recreation*2 semester hours*

Historical background of the present play movement; theoretical explanations of play; the need for play in modern life and its place in education and recreation; the fundamental principles and methods of recreation leadership.

**Student Teaching and Direction
of Student Activities***12 semester hours*

Observation and participation in teaching situations in the elementary grades and in the junior and senior high school under qualified cooperating teachers. Professional conferences and visitations are provided throughout this teaching semester which may be taken in the fall or spring term of the academic year depending upon administrative planning.

**Professional Practicum Including
School Law***2 semester hours*

Accompanying student teaching an undergraduate seminar will be required. This will include a study of problems met in the teaching semester and a review of those sections of the Pennsylvania School Law pertinent to teaching activities in the major field.

Elective Courses**Community and School Health
Education Workshop***3 semester hours*

The main objective of this course is the study of common problems in the home, community, and school health education areas. A five-point program is as follows: to provide in-service training in health education; to stimulate and promote an effective follow-up program in health services; to coordinate the efforts of allied health agencies; to stimulate and promote interest in local health units; and to develop an awareness of the place of mental health in the total health program of the home-school-community.

**Organization and Administration
of Recreation***3 semester hours*

Policies and procedures which are essential in the promulgation of recreation programs on local, state, and national levels. This includes visitations to and evaluations of recreation centers in operation. Students will be given opportunities to plan and administer recreational projects. Prerequisite: Principles of Recreation.

Supervised Recreation Leadership*4 semester hours*

Principles of supervising recreational activities on all levels for different age groups. Students will have guided experiences in active recreational leadership in varied programs.

Theories and Methods of Coaching*3 semester hours*

Principles and methods of coaching sports in the school program; problems of the coach with regard to psychology of handling a team, training, motivation, and schedule planning; bridging the gap between knowing how to play and the functions of coaching.

First Aid for Teachers*2 semester hours*

A study of advanced first aid techniques and the methods and procedures for teaching first aid; problems of safety in home and school, the prevention and care of athletic injuries. The student will be certified as an authorized American Red Cross First Aid Instructor upon completion of this course. Prerequisite: standard First Aid Certificate (Leadership in Protective Measures).

Nutrition and Community Health*2 semester hours*

A study of public health objectives and nursing functions from the viewpoint of the public health nurse. Emphasis is placed upon the objectives of instruction in nutrition, in health and disease, and the place of the public health nurse in the nutrition program.

Music in Recreation*3 semester hours*

The practical aspects of the field of recreational music as it meets the needs of all age groups. Each student will have an opportunity to plan and organize varied programs which could be used in community centers, civic groups, playgrounds, and camps.

Dramatics in Recreation*3 semester hours*

The place of all types of dramatic activities that meet recreational needs of all age groups as either participators or spectators of the activities. Emphasis will be placed upon the appropriate plays and other dramatic media that fit all age levels in any community.

Health and Physical Education for Elementary, Secondary, and Music Students

For Elementary Curriculum Students

Health

2 semester hours

This course is designed as an integrative experience in personal health education for the freshman student. The primary areas include: first aid in relation to civil defense, mental and emotional adjustment to the college environment, factors influencing physiological health, and the college student as an intelligent appraiser of health practices and fads. From a secondary list of health problems, opportunities are given for students to participate in elementary workshop procedures.

Physical Education I

1 semester hour

The student is introduced to an extensive program of recreational athletics having a high potential carry-over into post-college life. Included are archery, badminton, basketball, hockey, soccer, softball, speedball, swimming, tennis, and volleyball.

Physical Education II

1 semester hour

As the individual activities are continued, a gradual emphasis is placed upon those physical activities which elementary children enjoy. The basic organization of the physical education program in the modern elementary schools is reviewed. Basic principles in teaching children how to play simple games and relays and those other recreational activities that are associated with this age group. Opportunities for lesson planning and teaching are provided for in a practical manner. The ability to plan for and direct the practical "recess" period in the elementary school program will be a main objective for each student.

Physical Education III

1 semester hour

The place of fundamental rhythms, creative rhythms, singing games, and folk dances on the elementary level will challenge the student. Personal skills in these areas will develop and each student will assume the leadership in directing these activities in class situations. The use of dancing activities for demonstrations and pageants will be studied.

The Teaching of Health*3 semester hours*

This course is based upon the premise that health education is not a subject but rather a way of living. Special emphasis is placed upon the development of sound principles and procedures in meeting the different needs of the child in relation to the school, home, and community. Elementary health courses of study will form the basic point from which each student will explore content and methods for making a sound total health education program. The inter-relationship of health education with all fields in the modern elementary program will be a focal point of attention.

For Secondary Curriculum Students**Health***2 semester hours*

The same as Health for Elementary Curriculum Students.

Physical Education I*1 semester hour*

A wide variety of experiences in athletic games contemporaneous to college age levels will initiate the program. An introduction to those activities which have carry-over value into adult life will be the center of interest. These include soccer, speedball, hockey, basketball, swimming, softball, and tennis.

Physical Education II*1 semester hour*

Further experiences in individual sports will be offered including not only the learning of skills for personal enjoyment but also developing an elementary ability to help direct these in the modern secondary school recreational program. These include archery, badminton, bowling, golf, quoits, horseshoes, shuffleboard, tether ball, and winter sports.

Physical Education III*1 semester hour*

Rhythmical activities that are of great interest to secondary schools will be offered. These include social, folk, square, and country dancing. Emphasis will be placed upon both the development of individual skill and the ability to help direct these activities as a feature of the recreation program in schools.

For Music Curriculum Students**Health***2 semester hours*

The same as Health for Elementary Curriculum Students.

Physical Education I (Eurythmics I)*1 semester hour*

The realization of rhythm in bodily movement and the development of neuro-muscular responses to the perception of musical rhythms are bases for the course. The student will become familiar with the factors of timing, force, and space so as to increase both his skills in bodily movement and his appreciation of rhythm.

Physical Education II (Eurythmics II)*1 semester hour*

The development of an appreciation of rhythmic movement patterns through specific dance forms: Polka, Schottische, Waltz, Mazurka, Pavanne, Polonaise, Sarabande, Bouree, Gavotte, Minuet. Opportunities will be provided for the application of the principles of eurythmics in teaching music to children through both the planning and teaching of typical elementary school units such as: Folk Festivals, Circuses, May Days, Indians, Transportation, Work and Occupations, Special Holidays.

Physical Education III*1 semester hour*

This will provide an extensive variety of recreational athletic experiences which have the highest potential value for enjoyment in post-college life. Activities include archery, badminton, bowling, swimming, deck tennis, softball, volleyball, tennis, golf, and winter sports.

MATHEMATICS DEPARTMENT

DR PICKETT, *Head of the Department*; Miss Holland

Fundamentals of Mathematics*3 semester hours*

Development of the number system; nature and application of fundamental processes; extension of the number system to include common and decimal fractions and negative numbers; approximate nature of measurements; per cents; language of algebra including formulas, graphs, tables, and equations; meaning of proof; elementary concepts of statistics; art of indirect measurement; additional topics of interest to students.

College Algebra*3 semester hours*

Fundamental operations, factoring; fractions; exponents; functions and their graphs; linear, quadratic, and systems of equations; proportion and variation; progressions; mathematical induction; logarithms; determinants; permutations and combinations. Prerequisites: 1 year high school algebra and 1 year high school geometry.

Advanced College Algebra*3 semester hours*

Theory of equations; determinants; partial fractions; series; complex numbers; further development of permutations, combinations and probability. Prerequisite: College Algebra.

Trigonometry*3 semester hours*

Functions of an angle; logarithms; use of tables; radians; identities; trigonometric and exponential equations; solution of triangles by natural functions and logarithms; inverse functions; complex numbers; application in practical problems.

Spherical Trigonometry and Navigation*3 semester hours*

Solution of the right and oblique spherical triangles with emphasis on their practical application, especially in the field of navigation.

Analytic Geometry*3 semester hours*

Correlation of algebra and geometry in finding equations of loci and loci corresponding to certain equations; properties of the straight line, the circle, and conic sections; rectangular and polar coordinates; transformation of coordinates; parametric equations; a brief introduction to three dimensions. Prerequisites: College Algebra and Trigonometry.

College Geometry*3 semester hours*

Extension of competency in geometry; modern problems of the triangle and the circle; further development of rigorous proof; constructions based on loci and indirect elements; non-euclidean geometry. Prerequisite: high school plane geometry.

Calculus I (Differential)*3 semester hours*

Elementary concepts of limits; the derivative; applications of the derivative to maxima and minima; rates, velocity, acceleration; introduction of integration as the inverse of differentiation. Prerequisite: Analytic Geometry.

Calculus II (Integral)*3 semester hours*

Integration as the inverse of differentiation; formulas of integration; the definite integral; methods of integration; integration as the limit of a sum applied to areas, volumes, lengths of curves and other practical problems. Prerequisite: Calculus I.

Calculus III*3 semester hours*

A continuation of the calculus to include series, additional work in partial differentiation, multiple integrals, and elementary differential equations. Prerequisite: Calculus II.

Statistics*3 semester hours*

Basic principles and methods of statistics common to scientific research; understanding of and ability to use graphs, frequency distributions, measures of central tendency and dispersion; normal curve; correlation; regression and prediction; reliability of statistical measures; curve fitting; development of formulas.

History of Mathematics*3 semester hours*

Study of the growth of mathematics through the centuries and the men who contributed to it, enrichment of the mathematical background of students; integration of basic areas of mathematics. Prerequisite: Analytic Geometry.

Mathematics of Finance*3 semester hours*

Introduction to elementary theory of simple and compound interest with solution of problems in annuities, sinking funds, amortization, installment buying, mathematics of life insurance.

Field Work in Mathematics*3 semester hours*

Mathematics applied to the enrichment of secondary school mathematics. Use of the transit, angle mirror, hypsometer, sextant, and other measuring instruments; simple map-making exercises and elementary surveying; construction and use of student-made instruments and teaching devices.

**Teaching of Mathematics in
the Secondary School***3 semester hours*

Place and function of mathematics in secondary education; content and the improvement and evaluation of instruction in mathematics; acquaintance with current literature and research; observation in secondary schools. Prerequisites: 9 semester hours of College mathematics.

MUSIC DEPARTMENT

* MR. MITCHELL, *Head of the Department*

Mr. Zimmer, Miss Kiess, Mr. Parry, Mr. Middleton, Mr. Jones, Mr. Ginter, **Mr. Keenan, Mrs. Ashenfelter, Dr. Antonowich, Dr. Wright, Mr. Carl, Mr. Carson, Mr. Fletcher, Mrs. Gottlieb, Mr. Gutscher, Miss Keller, Dr. Cheesman, Mr. Wilkinson, Miss Stout, Mr. Sweet.

Theory

The theory courses aim to develop the techniques required for a comprehensive understanding of music literature and the background necessary for intelligent interpretation, arranging, and composition. These techniques include: the harmonization of melodies; analysis of form; creative work—at the keyboard and written; aural recognition of the harmonic vocabulary being studied; and the application to the keyboard of this vocabulary.

Solfeggio I

2 semester hours

With this study begins the development of the student's ability to sing at sight, with good intonation, music of moderate tonal and rhythmic difficulty in all major and minor keys in the G and F clefs. In addition, the course provides the student with the basic knowledge of the rudiments of music. Emphasis is placed on phrase-wise thinking and on the elements of form.

Solfeggio II

2 semester hours

Aims to increase the sensitivity of the student to correct intonation and to develop his ability to sing a second part. It includes two and three part singing and the melodic and natural minor scales. The student is also given experience with written musical notation, reproduction at the keyboard of simple melodies and harmonies, and the composition of simple original melodies. Prerequisite: Solfeggio I.

Solfeggio III

2 semester hours

This course aims to develop greater facility in the tonal and rhythmic techniques already presented and additional mastery of the problems of part singing. Advanced problems include more difficult modulation, chromatic alterations, modal tonality, and more complicated rhythms. It emphasizes the individual work begun in the previous Solfeggio courses through the use of duets and small ensembles. The problems are studied aurally as well as visually. Prerequisite: Solfeggio II.

* Leave of absence second semester.

** Leave of absence first semester.

Theory I*4 semester hours*

Includes a study of the primary harmonies, inversions, and nonchordal tones. The phrase and the period serves as the units for analysis and creative work.

Theory II*4 semester hours*

Increases the student's harmonic vocabulary to include the secondary harmonies, both triads and seventh chords, and simple alterations. The study of modulation to closely related keys and the analysis of homophonic forms are included. The Piano style, as well as the choral style, is used in the composition and harmonization of simple melodies. Prerequisite: Theory I.

Theory III*3 semester hours*

Gives additional practice in handling the materials of Theory I and II, and introduces chromatic alterations and the model tonalities. Analysis now includes the rondo and the sonata allegro forms. Prerequisite: Theory II.

Theory IV*3 semester hours*

Augments the student's harmonic vocabulary with a study of modulation to remote keys. Special attention is placed upon arranging compositions for voices, piano, and small groups of instruments. All the techniques acquired in previous courses will be further developed. Creative application of materials is emphasized. Prerequisite: Theory III.

Orchestration*2 semester hours*

This course includes the techniques of the instruments of the orchestra and band and presents the principles of instrumentation in theory and practice. Special emphasis is given to arranging for school orchestra and bands. Prerequisite: Theory III.

Survey of Music Literature*1 semester hour*

The purpose of this course is to acquaint the music student with the various forms and media of musical composition and to familiarize him with representative examples of standard music literature, thereby providing an adequate music background in preparation for ensuing courses. Emphasis is placed upon the objective elements of musical style as well as upon subjective factors of musical expression. Methods of teaching the creative listening programs in the public schools are stressed.

History of Music I*3 semester hours*

The field of music history in theory and practice from early times to the present is covered in this course. Examples of music, either by phonograph or other means, are used as much as possible. A varied but balanced program of individual listening is required. A strong emphasis is placed on the interrelation between various phases of music history and other social and art movements. (For students in the Music Education Curriculum only.)

History of Music II*3 semester hours*

This course includes the continuation of procedures found in History of Music I. The goals include special attention and greater coverage of the music history field from the Romantic Era to the present.

Conducting I (Choral)*1 semester hour*

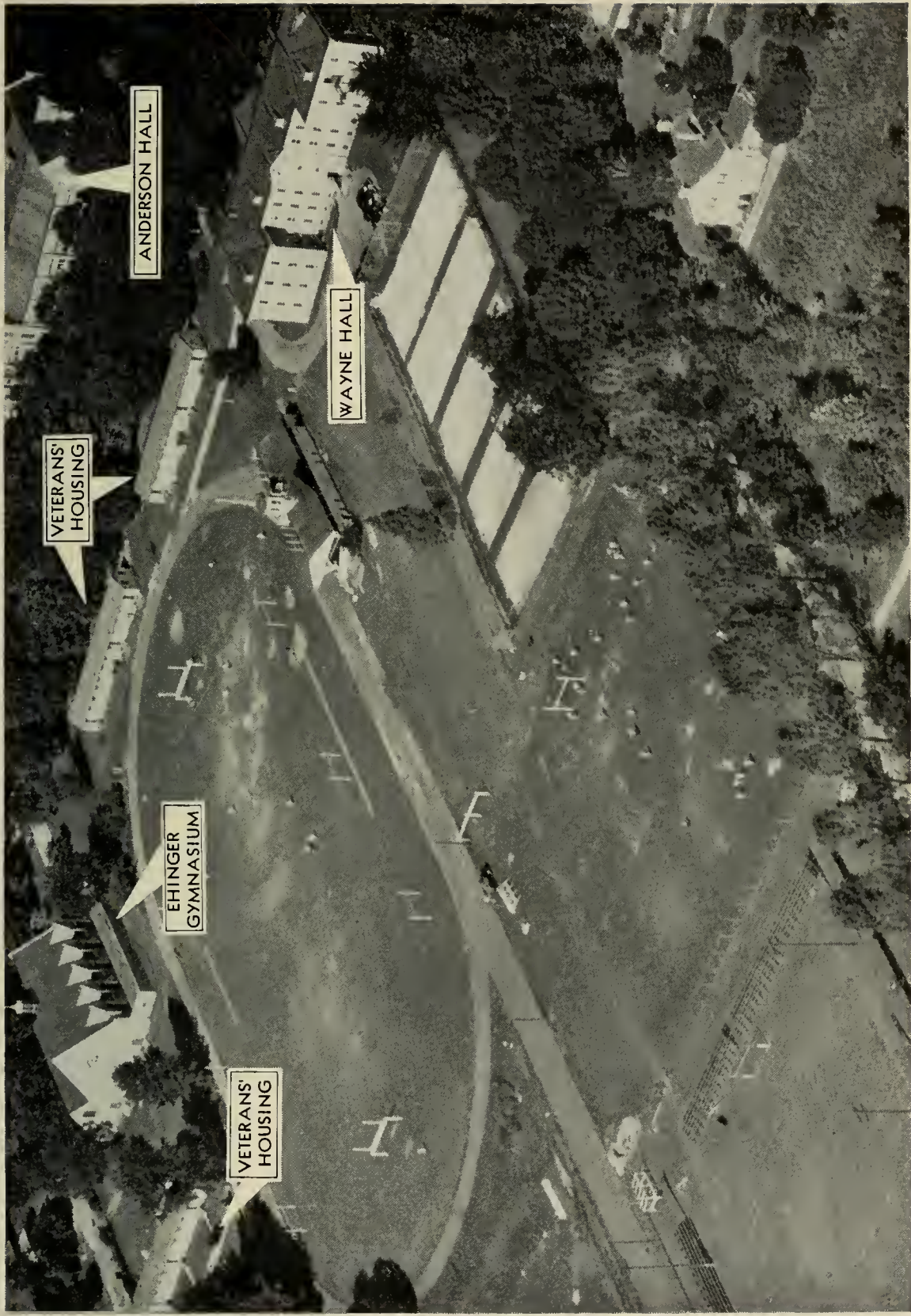
This course is a study of the technique of conducting with and without the baton, score reading, actual practice in group conducting, and choral materials and program building.

Conducting II (Instrumental)*1 semester hour*

This course is a study, theoretical and practical, of the conducting of all types of instrumental groups. Instrumentation, interpretation, balance, and score reading are studied, discussed, and practiced. Opportunity for the development of adequate rehearsal techniques and skills is provided. All the physical elements which can improve or handicap a performance are discussed.

Music Education and Student Teaching**Methods I (Elementary)***3 semester hours.*

This course deals with the use of vocal and recorded musical materials which are suitable for children in the elementary grades. Included in assignments and class discussion are such topics as: standards for choice of materials, care of the child voice, creative music activities, music in rural and consolidated schools, the attainment of desirable class attitudes toward music, the development of a music reading program. A program of directed observation in the laboratory school is carried on throughout the course. Skill in music reading and facility at the keyboard are prerequisites to this course.



AIR VIEW OF MEN'S ATHLETIC FIELDS

Methods II (Secondary—Vocal)*2 semester hours*

This course consists of a study of the organization, procedures, problems, and materials of vocal music classes in the junior and senior high schools. Attention is given to voice classification, the changed and changing voice, voice classes, choral organizations, public performances, the school assembly, appreciation, and the relation of the modern school to the community. Special consideration is given to the study of skills in teaching general music classes. Directed observation as in Methods I is included.

Methods III (Instrumental)*2 semester hours*

This course is devoted to the study of a suitable instrumental program for a public school system. Special attention is given to the problem of organization and administration, as well as the teaching techniques of the various instruments. Minor repairs, care of the instruments, and the marching band furnish additional topics for discussion. Available materials for all phases of the instrumental program are surveyed and evaluated.

**Student Teaching and Direction
of Student Activities***12 semester hours*

Opportunities are provided for student teaching, which carries with it observation, extending from the kindergarten through the twelfth grade. The work is carried on in different types of schools, such as the public schools of the Borough of West Chester, consolidated country schools, and one-room rural schools. Instruction is given in both vocal and instrumental music; in some schools, piano class work is in progress.

**Professional Practicum Including
School Law***2 semester hours*

General and specific problems, procedures, and materials encountered in student teaching are analyzed and discussed. Emphasis is put on basic school laws and their development in the United States and in Pennsylvania in particular. The course includes discussions, lectures, and individual conferences.

Applied Music

Applied Music studied in this curriculum serves two purposes: that of developing the musicianship of the individual student; and that of providing the prospective teacher with the knowledge and

techniques of various musical media needed for conducting an effective music program in the public schools. The program is carried out by means of individual and class instruction, according to the needs of the student.

Advanced Standing Requirements in Private Study

Advanced standing in private study may be achieved by students after the freshman year, upon successfully passing certain tests. Extra credit will be given to students in the advanced standing classification.

Piano

5 semester hours

Each student receives one-half hour instruction in piano per week. Opportunity is given for ensemble or solo performances in informal recitals and in monthly public recitals. At the end of each semester students are expected to meet minimum requirements in sight-reading, technique, and general musicianship, as determined by examinations before the piano faculty. The study of the piano includes Keyboard Harmony in the free piano style.

Organ

Individual instruction in pipe organ is offered to familiarize the student with the literature of the instrument and to develop a playing technique. (A limited number of students in the music curriculum who have met the piano and keyboard requirements may elect organ in place of piano. Students who qualify and are permitted to substitute organ for piano are subject to an additional fee.)

Orchestra and Band (Advanced, Intermediate, and Elementary)

2 semester hours

Each music student is required to attend orchestra and band. Advanced players may meet the requirement by being accepted in the Symphony Orchestra and the Concert Band. For those advanced players who do not qualify for the Concert Band, there will be an Intermediate Band.

Instruments

4 semester hours

Class instruction in all the orchestral and band instruments is offered. One year each of violin, clarinet, and trumpet is required. After having met the preceding requirement, the following instruments are elective: viola, cello, bass, flute, oboe, bassoon, horn,

trombone, baritone, tuba, percussion. For those advanced students who are interested in small ensemble groups in woodwinds, brass, or strings, opportunity is given to survey literature for such ensembles and to study ensemble style by participation.

Voice*4 semester hours*

The study and application of the physiological and psychological principles of voice production and diction. The material used ranges from rote songs to classic and modern song literature, according to individual ability. Opportunity is offered for solo appearances in recital and with college organizations.

Chorus*2 semester hours*

This course offers a study of choral works with these topics especially stressed: breathing, interpretation, tone quality, enunciation, and diction. Works suitable for junior and senior high schools and colleges are studied, and special attention is given to preparation and public performance in these works.

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All minimum applied music credits will be completed by the end of the junior year unless some deficiency needs to be removed. Only the Symphony Orchestra, College Choir, Concert and Marching Bands, and private study in the student's major field of piano, voice, or instrument with advanced standing credit will be required during the senior year.

Electives for Music Students**Advanced Harmony***2 semester hours*

This course is designed to provide the interested student with an opportunity to develop his understanding and facility in the use of harmonic idioms and practices beyond those developed in the required theory courses. Specific problems will include the study on an advanced level of chromatic harmony, modulation to remote keys, and the more common contemporary practices. Assignments will consist for the most part of the composition of original examples. Analysis of excerpts from the monuments of music literature will be given considerable attention. Stress will be placed on the individual harmonic practices of the great masters of musical composition. Prerequisite: Theory IV.

American Music*2 semester hours*

In this course the evolution of national style of composition is traced from the earliest known American composers to the present day, and to acquaint the student with representative works of outstanding American composers. American music in our cultural heritage is analyzed and listened to with special regard for the amount of influence such things as jazz, impressionism, nationalities, and economics have had upon it.

Counterpoint*2 semester hours*

A practical study of the fundamental material of music and its evolution. The course includes a comparison of harmonic and melodic movement, analysis and writing of both vocal and instrumental polyphony in strict and free style. Prerequisite: Theory III.

Composition*2 semester hours*

The purpose of this course is to give the advanced student more intensive experience in creative work. Although no definite idiom is prescribed, the use of contemporary techniques is encouraged. The work done in this course will be written for various mediums. Each student is offered guidance and aid in writing compositions in the forms, styles, and mediums best suited to his own special capabilities and needs.

Instrumentation*2 semester hours*

This course presents the elements and general principles of arranging for orchestra and band. The object of the course is to enable students to do acceptable sounding scoring where many players are still young and unable to play difficult music, and where many bands and orchestras have incomplete instrumentation. For Seniors only.

**Instrumental Techniques, Materials,
and Methods***3 semester hours*

This elective course is designed for those juniors and seniors who desire to supplement their training in instrumental music by expanding their knowledge of the organization and administration of an instrumental department; modern materials for instrumental classes, solos, small ensembles, orchestra and band; rehearsal procedures and techniques; minor repairs to instruments; contests and festivals; marching band methods and procedures. Prerequisites: Membership in Symphony Orchestra or Concert Band for one year or previous instrumental experience satisfactory to the instructor.

Piano Methods (Class)*2 semester hours*

This course provides for the training of piano teachers and supervisors for the organization and teaching of piano classes in the public school. Suitable teaching material including the leading system of class piano instruction will be examined and discussed. Demonstrations and student teaching are included.

Seminar in Piano Teaching and Teaching Material*3 semester hours*

In-service music teachers and supervisors will be given the opportunity for class study of outstanding examples of the piano literature. The role and integration of the piano into the public school program along with suitable teaching materials for class and private study will be analyzed and used in demonstrations and student teaching.

Teaching of Music Appreciation in the Elementary Grades*3 semester hours*

This course is designed to enrich the music program throughout the grades. Suitable and available materials will be suggested from which each member of the class will be expected to organize a unit of work for a specific grade. The subject of these units will be decided by the needs of the class itself. Throughout the course an attempt will be made to provide variety of approach and to present the subject so as to conform to the child's mental, physical, and psychological development.

Required Courses in Music for Elementary Education Students
Fundamentals of Music*no credit*

This course is given to those students in the Elementary Curriculum who do not meet the prescribed requirements of a Standard Achievement Test in music. Fundamentals of Music includes the study of intervals, scales, measure and key signatures, simple and compound rhythms, notation and terminology, and the application of this knowledge to the reading of simple music. Prerequisite to: Music for the Elementary Grades.

Introduction to Music*2 semester hours*

This course provides an orientation in music which aims to enrich the student's understanding and knowledge in the development of world culture with specific reference to the place of music

in this process through its unique aspect as a universal language of significant meaning and understanding to the peoples of the world. Through the media of recordings, radio, television, concerts, films, and the library, music is related to the development of the other arts, to religious, political, social, and economic trends, and to the various schools of historic and aesthetic thought.

Music for the Elementary Grades*2 semester hours*

This course is designed to equip the graduate to teach music in the elementary schools under supervision. Special emphasis is placed upon music fundamentals, sight reading, elementary theory, keyboard facility, vocal production, rhythmic activities, song interpretation, and creative possibilities. Prerequisite: Fundamentals of Music or passing of prescribed tests in Music.

**Teaching of Music in the
Elementary Grades***3 semester hours*

This course is a continuation of Music I with special emphasis upon the application of methods and materials in the elementary grades. Various teaching methods and the use of materials that function in the five-fold program are presented: singing, rhythmic activities, creative listening, and instrumental program. Type lessons are taught by the student and constructively evaluated; observation of music in the schools is incorporated. Prerequisite: Music for the Elementary Grades.

**Required Course in Music for Secondary and
Physical Education Students****Introduction to Music***2 semester hours*

This course provides an orientation in music which aims to enrich the student's understanding and knowledge in the development of world cultures with specific reference to the place of music in this process through its unique aspect as a universal language of significant meaning and understanding to the peoples of the world. Through the media of recordings, radio, television, concerts, films, and the library, music is related to the development of the other arts, to religious, political, social and economic trends, and to the various schools of historic and aesthetic thought.

Elective Courses in Music for Elementary Education Students
Piano Class (Elementary Teachers) *3 semester hours*

Functional study of the piano through class lessons so that the elementary teacher may use the instrument as a means of broadening the elementary music program into the integrated Elementary Education Curriculum. Piano accompaniments for classroom singing and rhythmic and creative activities are stressed through study, demonstrations, and teaching of practical classroom materials. This course is designed primarily for the in-service elementary classroom teacher.

Teaching Music through Song and Rhythm Materials *3 semester hours*

This course is planned primarily for Elementary teachers. It aims to prepare them to teach more effectively and to revitalize the program of Music Education in the schools. This will be brought about through study of the various series of song and rhythm materials currently available for use in elementary schools. It will develop the basic techniques for presenting these materials and a working knowledge of simple instruments such as the xylophone, auto harp, and percussion.

Applied Music *1 semester hour*

Students in any curriculum may elect to study piano, voice, or some instrument, and receive credit upon demonstration of satisfactory progress. One lesson each week.

Harmony I *3 semester hours*

Fundamentals of music; scales, intervals, triads, harmonization of melodies involving the use of the tonic and dominant harmonies in all positions; non-chordal tones; application of the foregoing in original work.

Harmony II *3 semester hours*

Harmonization of melodies involving the use of sub-dominant, supertonic, sub-mediante, and mediant harmonies in all positions; secondary seventh chords, simple chromatic alterations; application of the foregoing in original work. Prerequisite: Harmony I.

History and Appreciation of Music *3 semester hours*

The field of music history in theory and practice from early times to the present is covered in this course. Examples of music,

either by phonograph or other means, are used as much as possible to illustrate this survey. A strong emphasis is placed on the interrelation between various phases of music history and other social and art movements.

NOTE: Many of the courses in the Music Curriculum are available to students in other departments. There are no fees for the students that qualify in the larger musical organizations, which are considered extra-curricular for non-music majors.

SCIENCE DEPARTMENT

DR. GORDON, Head of the Department
Miss Greenwood, Dr. Trezise, Dr. Rogers, Miss Harbold, Dr. McTavish,
Mr. Skillen, Mrs. Kennedy, Mr. Gruener, Mrs. Bliss

General Courses

Basic Biology

3 semester hours

This course deals with the principles of biology. Topics include cellular structure and physiology, growth and repair, reproduction and development, control, sources of food energy, inheritance, and man's interrelationship with his biological environment. The classification of plants and animals is reviewed briefly.

Basic Physical Science

3 semester hours

This course utilizes the fields of earth science and astronomy to provide a broadened background of science. The nature and uses of energy is the central theme for the study of heat, light, chemical, electrical, and atomic energy. Emphasis is placed on the methods of scientists in recognizing and solving problems.

Basic Physical Science (Acoustics)

3 semester hours

A special course in musical acoustics has been arranged for students in the Music Education Curriculum to give them an understanding of the nature of sound and the basic principles of production and transmission of sound with their applications to musical instruments. Further consideration is given to the physical basis of harmony and scales, hearing, the acoustics of concert halls, and the recording and reproduction of sound.

Science for the Elementary Grades

3 semester hours

This course, following the year of basic science, is designed to provide the elementary teacher with a more adequate background for teaching science in the elementary school. Units or problems are selected to achieve this purpose which cut across various fields

of science. Emphasis is placed upon developing resourcefulness in gathering data and using the scientific method in the solution of such problems.

Science in Modern Civilization

3 semester hours

This course is designed to acquaint the secondary student with some of the major discoveries of science in all fields and the effects of discoveries upon man's way of life. Emphasis is placed upon developing and understanding of science and its implications. Discoveries leading to more abundant supplies of energy, discoveries contributing to better health and longer life, more rapid transportation, to a more abundant and better food supply, better housing, better clothing, and to greater destructive potential are some of the topics developed.

Teaching of Science in the Secondary School

3 semester hours

This course is planned to give the prospective science major a thorough grounding in the problems of teaching science. The objectives of the science program in the secondary school, selection of textbooks, sources of suitable literature, how to secure materials for instruction, the preparation of units, and special techniques are studied. Prerequisites: 12 hours of work in major field.

Biology

Botany I

4 semester hours

Botany I is a study chiefly of the flowering plants. Topics include the anatomy and life processes of plant cells, leaves, stem, roots, flowers, seeds, and fruits. The economic importance of plants used by man and the recognition and classification of seed plants in the immediate environs of the College are included.

Botany II

4 semester hours

Botany II is concerned primarily with the non-flowering plants. It considers both the anatomy and life processes of selected algae, bacteria, fungi, mosses, ferns, and their allies. The economic importance and health implications of certain of these groups are emphasized. The recognition and classification of non-flowering plants in the immediate surroundings are stressed. Prerequisite: Botany I.

Zoology I*4 semester hours*

This is a study of the life history, habits, origin, development, physiology, and anatomy of each phylum in the invertebrates. Emphasis is given to the study of those forms of economic importance to man or with health implications. The student becomes acquainted with the many invertebrate species found locally.

Zoology II*4 semester hours*

This course is a study of the chordates in general, and more particularly the classes of vertebrates. Topics studied include the anatomy, physiology, origin, development, and life history of representative members of each class. Special attention is given to the vertebrates found in the vicinity of the College. Prerequisite: Zoology I.

Ecology*3 semester hours*

This course is a study of plants and animals in relation to their physical and biological environments. Special topics include distribution, factors affecting distribution, life zones, food chains, and adaptations. Attention is given to plant and animal communities in Pennsylvania. Individual problems may be assigned. Prerequisites: 6 hours of Biological Science or permission of the instructor.

Genetics*3 semester hours*

The purpose of this course is to give the student an understanding of the laws of inheritance as they operate in plants, animals, and humans. Cell structure, Mendelian inheritance, eugenics, linkage, probability, crossing over, and random assortment are all considered. Prerequisites: 6 hours of Biological Science or permission of the instructor.

Field Botany*3 semester hours*

Students in this course learn methods useful in the study of plants in their natural surroundings. The use of keys, botanical manuals, and illustrated floras to identify living specimens will constitute a major activity. Among the desirable outcomes should be an acquaintance with non-cultivated plants as sources of emergency or staple foodstuffs, fibers, lumber, pollen and nectar, as well as their invaluable importance to wildlife.

Field Zoology*3 semester hours*

This course is primarily one which will familiarize teachers with the animal life in the surrounding localities. Considerable attention will be given to the use of keys, charts, books, museum specimens as guides to the identification and classification of various animals. Field trips will be taken to observe, collect, and study animals as well as their habitat.

Ornithology*3 semester hours*

This is an introduction to the birds of Pennsylvania with special emphasis on the identification of birds in the field. Lectures deal with classification, migration, habitat preference, song, courtship, nesting and rearing of young, and plumage changes. Abundant field work gives practice in identification of native birds by their songs, behavior, form, and plumage.

Parasitology*3 semester hours*

The student in this course considers the anatomy, physiology, life history, and habits of representative parasites of man and his domesticated animals. Means of prevention, detection, and control are emphasized. Special attention is given to those forms likely to be encountered in the area of the College. Prerequisites: Zoology I and II.

Entomology*3 semester hours*

A general study of insects is made in this course, including structure, physiology, economic importance, classification, and relationships. Each student is required to participate in field trips and to complete a project including a collection and report on some group of insects. Prerequisite: Zoology I.

Physiology*3 semester hours*

The purpose of this course is to give the student a general background of body processes in animals and a more detailed knowledge of human physiology. Related anatomy is taught as needed. Prerequisite: Zoology I and II.

Microbiology*3 semester hours*

This course is a study of microscopic forms of life which are commonly encountered in biological work. Some emphasis is placed on the study of disease producing species likely to affect

man and his domesticated animals. Methods of culturing forms used in high school teaching are studied. Prerequisites: Botany I and II, Zoology I and II.

Vertebrate Anatomy*3 semester hours*

A course in mammalian anatomy designed for majors in Biology. Although the cat is used for lecture and laboratory work, considerable emphasis is given to comparisons with other vertebrates, especially man. Prerequisites: Zoology I and II.

Biological Chemistry*3 semester hours*

This course includes the chemistry of proteins, fats, carbohydrates, minerals, and vitamins, and the biological functions of each. Digestive and metabolic changes are studied by laboratory tests and animal feeding experiments. Prerequisites: Organic Chemistry I and II.

Chemistry**Chemistry I (for Health Education students only)***3 semester hours*

This course is required of all students of Health and Physical Education and does not satisfy the requirements in chemistry for Science majors. It includes a general study of several of the common elements, several types of problems, and the fundamental laws of chemistry. A brief study of the periodic table and atomic structure is introduced very early in the semester.

Inorganic Chemistry I*4 semester hours*

This course includes a chemical study of the structure and behavior of matter. Topics stressed in the first semester are the gas laws, solutions, valence, ionization, acids, bases, oxidation and reduction as well as the writing of equations and solving of problems.

Inorganic Chemistry II*4 semester hours*

This course is a continuation of Inorganic Chemistry I and stresses the more fundamental concepts of non-metals, metals, atomic structure, the periodic classification of elements, and simple qualitative tests for cations and anions. Prerequisite: Inorganic Chemistry I.

Qualitative Analysis*3 semester hours*

This course is a study of the theoretical principles and practices underlying analytical chemistry. It includes study and practice in separating and identifying the cations and anions of the more common elements and radicals. Prerequisites: Inorganic Chemistry I and II.

Quantitative Analysis*3 semester hours*

This course gives introductory training in the theory and practice of gravimetric, volumetric, electrolytic, and potentiometric analysis. Quantitative calculations and relations are stressed. Prerequisites: Inorganic Chemistry I and II.

Organic Chemistry I*4 semester hours*

This course is an elective for those who plan to major or minor in Chemistry. It includes a study of the hydrogen compounds of carbon of the aliphatic series with emphasis on structural relationships and nomenclature as well as on uses and characteristic properties. Prerequisites: Inorganic Chemistry I and II.

Organic Chemistry II*3 semester hours*

This course is a continuation of Organic Chemistry I. It deals primarily with the amines and proteins and those compounds belonging to the aromatic series. Both micro and semi-micro techniques are employed to stress the properties and type reactions of the usual classes of organic compounds. Prerequisite: Organic Chemistry I.

Physical Chemistry*3 semester hours*

This course is an introduction to the fundamental principles of theoretical chemistry with application in the solution of problems and training in the techniques of physical-chemical measurements. The following topics are included: phase rule, properties of solutions, liquids, solids, gases, surface tension, vapor pressures, osmotic pressures, chemical cells, buffers, indicators, oxidation-reduction potentials, and conditions affecting chemical equilibria. Prerequisites: Inorganic Chemistry and Physics I and II.

Colloidal Chemistry*3 semester hours*

This course is a study of substances in the colloidal state with particular emphasis on methods of producing sols and gels, stabil-

izing them or preventing their formation, and interference in chemical procedures. The practical application to various industries, agriculture, medicine, weather, soils, and home and community life will be stressed. Prerequisite: Inorganic Chemistry.

Industrial Chemistry

3 semester hours

This course deals with the application of theories, laws and calculations of chemistry to industrial processes. An intensive study of at least one major industrial process is made by each student. The class work is supplemented by selected laboratory experiences and numerous trips to neighboring industries. Prerequisites: Inorganic Chemistry I and II.

Chemistry of Nutrition

3 semester hours

This course is a study of the application of food and physiological chemistry to the nutrition of man. Topics included are dietary studies, food requirements of persons of various ages and environmental conditions, energy, metabolism, mineral requirements and utilization, the vitamins, and the effect of food on growth and good health. Prerequisite: Chemistry I or Inorganic Chemistry I.

Water Analysis

2 semester hours

This course is a study and analysis of water for potable qualities and for use in industrial applications. The treatment for softening and elimination of industrial contamination is emphasized. Prerequisite: Inorganic Chemistry.

Physics

Physics I

4 semester hours

This is an introductory course in mechanics, heat, and sound. Some of the topics studied are the mechanics of solids, liquids, gases, thermometry, calorimetry, and heat transference, the production and nature of sound waves including musical sounds.

Physics II

4 semester hours

This is an introductory course in light, magnetism, and electricity. Some of the topics discussed are reflection and refraction, optical instruments, spectra and interference. The portion devoted

to electricity and magnetism deals with the general concepts of magnetism, electrostatics, electrical circuits, generators, motors, and alternating currents.

Electricity and Magnetism

4 semester hours

This is an advanced course in general electricity and magnetism. The electric magnetic fields, D. C. and A. C. circuits, capacitance, inductance, electromotive force and electrical instruments are among the topics developed. Prerequisites: Physics I and II.

Mechanics

4 semester hours

This is an intermediate course in mechanics of solids, liquids, and gases. An opportunity is provided for a deeper insight into the principles in operation and their practical application. Studies are made of rectilinear and circular motion, work and energy, impulse and momentum, simple harmonic motion, and hydrostatics. Emphasis is placed on qualitative considerations. Prerequisites: Physics I and II.

Heat

4 semester hours

This is an intermediate course in heat. The basic concepts and principles are developed more intensively in the study of the properties of gases and in thermodynamics. Some of the specific topics studied are temperature measurements, expansivity, specific heats, thermal conductivity of solids and liquids, thermal properties of gases, change of phase and heat engines. Prerequisites: Physics I and II.

Electronics

3 semester hours

This is a course dealing with the electron, inducing the charge, emission, and velocity of the electron. The fundamentals of vacuum tubes and their circuits and the use of tubes in communications and industry are studied. Prerequisites: Physics I and II.

Optics

4 semester hours

This is an intermediate course in optics. Geometrical and physical optics are included. Reflection and refraction at surfaces, lenses, interference and diffraction, elementary spectroscopy and polarization of light are discussed. Applications are made in the study of optical instruments. Prerequisites: Physics I and II.

Sound*3 semester hours*

This is an intermediate course in the study of sound. The physical basis of sound is studied under such topics as wave motion, characteristics of sound waves, reproduction and measurement of sound, the ear and hearing, architectural acoustics, and sound insulation. Prerequisites: Physics I and II.

Physical Measurements*3 semester hours*

This is a course in the study of various precision measuring devices. The principles of operation and practical uses are emphasized. Some instruments used are vernier calipers, micrometers, spherometers, cathetometers, micrometer microscopes, pressure gauges, audiometers, sextants, Jolly balances, photometers, spectrometers, potentiometers, ballistic galvanometers, and oscilloscopes. Prerequisites: Physics I and II.

Modern Physics*3 semester hours*

This is a study of twentieth century physics. The course includes the development in thermionics, x-rays, and radioactivity. Considerable attention is given to the modern concepts of atomic structure together with the mechanisms of release of atomic energy and its subsequent utilization. Prerequisites: Physics I and II.

SOCIAL STUDIES DEPARTMENT

DR. ANDES, *Head of the Department*

Dr. Heim, Dr. Vollbrecht, Dr. Cuncannon, Mrs. Ivins, Mr. Shaffer, Dr. Lemley

General**World Culture I and II***10 semester hours*

An integrated survey course presenting the origin, development, and influence of the governmental and social organization, economic activity, religious belief and practice, literature, and fine arts as they have contributed to our modern civilization. It deals with broad sweeping movements rather than details of the individual state or nation. Six semester hours will be allowed for World Culture I and II toward certification in Social Studies, History, or Social Science.

American Citizenship*6 semester hours*

A course which deals with the evolution of the Constitution of the United States through amendment, legislative and judicial

interpretation, and custom. Broad principles of government as related to citizenship are stressed, with duties, rights, privileges, and responsibilities of the individual given major consideration.

Teaching of Social Studies in Secondary Schools

3 semester hours

This course is intended to familiarize prospective teachers with desirable methods which may be used in teaching the social studies. Emphasis is placed on the philosophy, objectives, courses of study, and organization of subject matter for teaching purposes, curriculum materials, procedures, and development.

History

History of Civilization I and II

6 semester hours

A study of the origin and development of the political, social, economic, and religious institutions which constitute modern civilization, with emphasis upon broad movements to make realistic the information necessary for a proper understanding of the great heritage that is ours in the present day.

History of United States and Pennsylvania I

3 semester hours

A survey course in the history of the United States and Pennsylvania from the beginning of the colonial period to the end of the Civil War. Emphasis is placed on the social, economic, and political development of our nation in general and of our Commonwealth in particular.

History of the United States and Pennsylvania II

3 semester hours

A survey course in the history of the United States and Pennsylvania from 1865 to the present. Stress is placed on the impact of the Industrial Revolution on our society, the growth of the labor world power, our part in World Wars I and II, and the activities of our nation in behalf of international organization.

History of Pennsylvania

3 semester hours

A study of the founding and development of Pennsylvania from its colonial beginning to the present time. Emphasis is placed on the social, economic, and political developments in the different

periods of its history. Special attention is given to the diversity of the people, their institutions and problems, and the growth of Pennsylvania to a leading position in our modern industrial world.

Diplomatic History of the United States*3 semester hours*

Special emphasis is placed on a study of our foreign relations from the beginning of our national history to the present. Such aspects as the growth and influence of a policy of "isolation," the creation and development of the Monroe Doctrine, the changing position of the United States as a world power, and the problems incident to the assumption of the resulting responsibilities.

History of Europe to 1815*3 semester hours*

A study of the development of the social, economic, political, religious, and cultural experiences of the European people, emphasizing the cause and effect of inter-relation and inter-dependence of both people and events that are basic to understanding the fundamental forces that lead to modern life.

History of Europe Since 1815*3 semester hours*

A comprehensive study of the factors contributed by the European people in their national organization through their political, social, and economic activities. The understanding of the casual and intergroup relationships are essentially basic to analysis and interpretations of the difficulties facing the European world today.

Renaissance to Reformation*3 semester hours*

A study of the Renaissance and Reformation with particular emphasis on the important political, economic, social, and cultural forces that emerged during this period of transition and ushered in the modern western culture. Emphasis is placed on the evolution of modern states and the rise of individualism.

History of England*3 semester hours*

This course traces the growth of the people and institutions of England from the conquest by the Anglo-Saxons to the present. The emphasis is placed on the development of those factors that gave rise to the struggle and events that culminated in the establishment of democratic principles and organization in our modern world.

Twentieth Century World History*3 semester hours*

The significance of events in the present century is brought out in this course by a study of the growth of capitalism, imperialism, totalitarianism, international jealousies, World Wars I and II, and the attempts of the family of nations to find world peace through international understanding.

**International Relations 1919 to
the Present***3 semester hours*

This course emphasizes the modern economic, social, political, religious and cultural problems that reflect their influence of international relationships of the nations of the world using the United States as the point of departure. Special attention is paid to the struggle of the people through their representatives in international conferences and organizations to resolve their differences.

History of Latin America*3 semester hours*

This course surveys the development of the Latin American countries from the period of discovery to the present. The economic, social, political, and cultural areas receive special attention first as domestic problems, then as they are related to the various political units involved. The influence of European and American relations as they are reflected in local changes are given consideration.

History of the Middle East and India*3 semester hours*

A study of the various civilizations that developed in this area with regard to their contributions as they influenced both oriental and occidental achievements. Special emphasis is placed on the modern aspects of their relation to world knowledge and to problems of current international interest.

History of the Far East*3 semester hours*

A study of the development of the people of China, India, Japan, Indonesia, and the Pacific Islands. Attention is given to their cultures and developmental problems as they are related to each other and to the occident.

Social Science**Principles of Economics***3 semester hours*

This course emphasizes economic principles which are fundamental for an appreciation of our modern economy. While stressing

the forces and factors that explain production, distribution, and consumption in our capitalistic order, much attention is also given to practical economic matters, including labor problems, co-operative movements, and business management.

Contemporary Economic Problems*3 semester hours*

This course consists of a study of certain of our more crucial present day problems such as: labor relations, money and banking, international trade, government regulation.

Consumer Education*3 semester hours*

This course is designed to develop techniques and methods which will enable the buyer to evaluate, on a quality and price basis, the myriad goods sold in the modern market place. Among the matters considered are the following: installment buying, choice of product, insurance, advertising and others of similar importance.

Industrial Relations*3 semester hours*

The purpose of this course is to study a history of the industrial movements in order to understand the problems involved in the background. Then follows a study of human relationships in industrial enterprise, the place of collective bargaining, and personnel administration.

Principles of Sociology*3 semester hours*

This is a basic course in sociology dealing with the interaction arising from the association of human beings. Emphasis is placed upon natural and social heritage, the meaning and functions of culture, the origin, function, and characteristics of social institutions, such as the family, religion, and the state; with inquiry into the nature and genesis of social pathology.

Contemporary Social Problems*3 semester hours*

This is an advanced course in sociology. It deals with several problems such as poverty, unemployment, crime, divorce, and mental maladjustment. Lectures, reports, and seminar techniques are used.

Home and Family Living*3 semester hours*

This course deals with the development of the family and the home in its historical, economic, and legal aspects. The various

factors influencing the organization, disorganization, and reorganization of the family are considered, as well as the modern trends in this basic institution.

American Government*3 semester hours*

A study of the general principles of the American system of constitutional government; special emphasis is placed upon the organization and functions of the national government—legislative, executive, and judicial; the rights and duties of citizenship; the electorate, political parties, civil rights, and the growing regulatory functions of government are carefully treated.

State and Local Government*3 semester hours*

This course deals with the organization, structure, and functions of our State, County, and City governments. Consideration is given to modern administrative techniques and methods as they apply to state and local governmental units. Special emphasis is placed upon Pennsylvania state and local governmental organs.

Municipal Government*3 semester hours*

This course deals with the history, organization, structure, and functions of the major types of city government in the United States. Consideration is given to the development of modern administrative techniques and methods as they apply to municipalities. The prevailing forms of government and administration used by boroughs and townships in Pennsylvania are surveyed.

Comparative Government*3 semester hours*

In this course major attention is given to Great Britain and Soviet Russia as best representing, among foreign governments, the democratic and authoritarian systems. Brief consideration is given to the governments of France, Italy, Germany, and Japan. Frequent comparison and contrasts are drawn between these governments and government in the United States.

United Nations Organization and Functions *3 semester hours*

This course traces briefly the background of the efforts of nations to bring about mutual understanding among all peoples. The causes are studied which resulted in the development of the United Nations Organization. The component parts of the Organization are carefully analyzed. The accomplishments to date to establish world peace are carefully examined.

SUMMER SESSIONS OF 1953

Pre-Session:	3 weeks—June 8 to June 26
Regular Session:	6 weeks—June 29 to August 7
Post Session:	3 weeks—August 10 to August 28

Credit Secured in Summer School

By action of the Board of Presidents of the State Teachers Colleges, no student will be allowed to secure more credits than the number of weeks in a session except by special permission of the President and the Dean. A student may enroll for one, two, or all three sessions. By attending all twelve weeks a student can complete 12 semester hours of credit.

Expenses and Fees *

Board and room are \$12.00 a week. The Activity Fee for the Regular Session is \$2.50 and for the Pre-Session and Post-Session \$1.25 each. Books must be purchased. They will cost approximately \$15.00. A fee of \$7.50 per semester hour of credit, covering instructional costs, is charged for residents of Pennsylvania; out-of-state students also pay at the rate of \$7.50 per credit hour. The full expense of any summer session must be paid on the day of registration.

Health and Physical Education

During the Summer Sessions, the College plans to offer courses in the Health and Physical Education curriculum. The courses to be offered will be of collegiate grade and will carry credit toward discharging the requirements for the B.S. degree in the field of Health and Physical Education. The program will interest and appeal to the following groups of people:

1. Graduates of the three-year curriculum in health and physical education who are planning to meet requirements for the degree in health and physical education;
2. Graduates of other curricula who now plan to secure teaching certification in the health and physical education field;
3. Teachers in service who are called upon to teach and supervise health and physical education and playground work and who desire to meet the state requirements for this work.

* Fees subject to change without notice.

Music Education

During the Summer Sessions the College plans to offer courses in Music Education for three classes of people:

1. Those who have completed the three-year music course in the State Normal Schools and Teachers Colleges of Pennsylvania;
2. Supervisors of music in the elementary or secondary schools who are desirous of furthering their musical education or of securing the Bachelor's degree in this field;
3. Those who have done advanced or somewhat irregular work in music and who wish to continue their education in the four-year college curriculum.

In the Summer Sessions, courses will be offered only when a sufficient number of students apply for them.

More detailed information about the Summer Sessions will be sent upon request to the Registrar, State Teachers College, West Chester, Pennsylvania.

EXTENSION WORK *

Extension courses permitted in the four-year curricula for the preparation of teachers of the public schools:

1. The College adheres to the regulations set up by the American Association of Colleges for Teacher Education. A committee of this Association has recommended that extension credits be limited to thirty-two semester hours in the four-year curricula.
2. Any courses in the four-year curricula may be offered by the State Teachers Colleges subject to the standards approved by the State Council of Education.
3. Credit for equivalent courses given by other institutions may be given subject to the thirty-two semester hour limit and provided the courses have been given in accord with the standards of the State Council of Education.
4. Extension credits previous to June 1, 1941, shall be in accord with the limited list in effect at that time.

* The State Teachers College at West Chester does not offer courses by correspondence, nor does it grant credit for courses taken through correspondence.

COLLEGE COURSES FOR TEACHERS

Each semester a number of courses may be offered in the evenings and on Saturday mornings. These courses are planned for those teachers who are in service and who wish to continue their work toward the degree. The courses given are selected from the several curricula and are chosen with the idea of accommodating as many teachers as possible.

The cost of these courses is at the rate of \$7.50 per semester hour of credit for legal residents of Pennsylvania and for out-of-state students.

No Activity Fee is charged students who are enrolled in the College Courses for Teachers. The payment of the Activity Fee does, however, entitle the student to participate in all student activities and college activities that are provided for by this fee.

Not more than six semester hours of credit will be allowed for courses completed in any one semester by a student who during such term, is a regularly employed full-time teacher.

The College gladly welcomes any suggestions for courses to be offered evenings and Saturdays. Such requests should be mailed to the Dean of Instruction.

ENROLLMENT BY CLASS AND CURRICULA 1952-1953

	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Curricula Total</i>
ELEMENTARY EDUCATION.....				709
Freshman	22	211	233	
Sophomore	15	146	161	
Junior	16	147	163	
Senior	11	141	152	
SECONDARY EDUCATION.....				292
Freshman	83	36	119	
Sophomore	50	14	64	
Junior	47	12	59	
Senior	34	16	50	
HEALTH AND PHYSICAL EDUCATION.....				340
Freshman	79	54	133	
Sophomore	46	24	70	
Junior	42	28	70	
Senior	45	22	67	
MUSIC EDUCATION.....				265
Freshman	46	39	85	
Sophomore	32	40	72	
Junior	24	34	58	
Senior	15	35	50	
COLLEGE GRADUATES.....	4	3	7	7
STUDENT NURSES.....		14	14	14
	—	—	—	—
Totals				
Full-Time Students.....	611	1016	1627	1627
College Courses for Teachers (Part-Time)	3	106	109	109
	—	—	—	—
Total College Enrollment.....	614	1122	1736	1736

1952 SUMMER SESSIONS ENROLLMENT

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Pre-Session	105	187	292
Regular Session	140	403	543
Post-Session	81	156	237

ENROLLMENT BY COUNTIES**1952-1953**

Adams -----	9	Luzerne -----	30
Allegheny -----	5	Lycoming -----	2
Armstrong -----	1	McKean -----	1
Beaver -----	1	Mercer -----	1
Bedford -----	4	Mifflin -----	10
Berks -----	66	Monroe -----	4
Blair -----	10	Montgomery -----	172
Bucks -----	70	Montour -----	1
Carbon -----	9	Northampton -----	36
Center -----	4	Northumberland -----	14
Chester -----	165	Perry -----	9
Clearfield -----	2	Philadelphia -----	373
Columbia -----	2	Potter -----	2
Crawford -----	2	Schuylkill -----	29
Cumberland -----	8	Snyder -----	1
Dauphin -----	28	Somerset -----	2
Delaware -----	312	Susquehanna -----	3
Erie -----	1	Union -----	5
Fayette -----	2	Wayne -----	3
Franklin -----	12	Westmorland -----	5
Fulton -----	1	Wyoming -----	3
Huntingdon -----	7	York -----	42
Juniata -----	1		—
Lackawanna -----	12	Total from Penna.-----	1564
Lancaster -----	38	From other states -----	63
Lebanon -----	10		—
Lehigh -----	34	Total -----	1627

DEMONSTRATION SCHOOL**1952-1953**

Kindergarten -----	26	Fourth Grade -----	26
First Grade -----	29	Fifth Grade -----	26
Second Grade -----	26	Sixth Grade -----	26
Third Grade -----	28		—
		Total -----	187

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REGISTRATION

The State Teachers College at West Chester devotes its entire facilities to the training of personnel for the public schools. If you are interested in earning the degree of Bachelor of Science in Education and a college certificate valid for teaching in the public schools of Pennsylvania, please fill in the form at the bottom of this page and return it to the Registrar, State Teachers College, West Chester, Pa.

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(2-53) **STATE TEACHERS COLLEGE**
WEST CHESTER, PENNSYLVANIA (Use Ink)
PRELIMINARY REGISTRATION

1. Name _____
 (Last) (First) (Second)
2. Number and Street _____ County _____
3. City _____ Zone _____ State _____
4. When do you wish to enter this College?
 Month (September, January or June) _____ 19 _____
5. In what curriculum do you wish to enroll?
 Elementary _____ Secondary _____ Physical Ed. _____ Music _____
 If Secondary Education, list Major _____ Minor _____
6. Have you attended any other college? Yes _____ No _____ If so,
 give name of the college _____
7. Do you apply as a Resident Student? _____ Day Student? _____
8. Are you a veteran eligible for training under the G. I. Bill? Yes _____ No _____
 Korean Bill? Yes _____ No _____

NOTE: When this information has been received by the Registrar, instructions for completing your applications will be sent to you.

